1691.

Apollo Anglicanus,

THE

ENGLISH APOLLO:

Assisting

All Persons in the Right Understanding of this Years Revolution, as also of things past, present, and to come.

With necessary Tables plain and useful.

A twofold Kalendar, *viz. Julian* or *English*, *Gregorian* or *Forein* Computations, more plain and full than any other, with the Rising and Setting of the Sun, the nightly Rising and Setting of the Moon, and also her Southing, Exactly calculated for every day. Of general use for most men.

Being Third after *Bissextile* or *Leap-Year*.

To which is added the Moons application to the fixed Stars: With the Calculation of the Eclipses: also Rules and Tables for the measuring of Timber: with many other things both pleasant, useful and necessary.

Calculated according to Art, and fitted to the Meridian of *Leicester*, whose Latitude is 52 Degrees, 41 Minutes. Exactly fitting all the middle Counties of *England*, and without sensible Error the whole Kingdom.

By RICHARD SAUNDERS,
Student in the Physical and Mathematical Sciences.

LONDON: Printed by M. CLARK, for the Company of STATIONERS. 1691.

The *Julian* or old Account used in *Engl.* **1691.** The *Gregorian* or New Stile used bey ond Sea.

		The Golden Number.			
	3D	The Dominical Letters			G
	11	The Epact.			1
February	22	Shrove-Sunday.		February	25
May	21	Ascension-Day.		May	24
May	31	Whit-Sunday.		June	3
November	29	Advent-Sunday.		December	2

A Table of the four Terms, and their Returns, &c.

Hilary-Term begins *January* 23. ends *February* 12.

Essoin-days.		*Except.*	*Ret. Brev.*		*Appear.*	
Octab. Hillar. Jan.	20	January 21	Jan.	22	Jan.	23
Quind. Hillar. Jan.	27	January 28	Jan.	29	Jan.	30
Craftin. Purif. Feb.	3	February 4	Febr.	5	Febr.	6
Octab. Purif. Feb.	9	February 10	Febr.	11	Febr.	12

Easter Term begins *Apr.* 29. ends *May* 25.

Quind. Pasch. Apr.	27	Apr.	28	Apr.	28	Apr.	29
Tres Pasch. May	4	May	5	May	5	May	6
Mens. Pasch. May	11	May	12	May	12	May	13
Quinq. Pasch. May	18	May	19	May	19	May	20
Craft. Ascens. May	22	May	23	May	22	June	25

Trinity Term begins *June* 12. ends *July* 1.

Craft. Trin. June	8	June	9	June	10	June	11
Octab. Trin. June	15	June	16	June	17	June	17
Quind. Trin. June	22	June	23	June	25	June	21
Tres Trin. June	29	June	30	July	30	July	1

Michaelmas Term begins *Octob.* 23. ends *Novemb.* 28.

Tres Mich. Octob.	20	Octob.	21	Octob.	22	October	23
Mens. Mich. Octob.	27	Octob.	28	Octob.	25	October	30
Craft. Anim. Nov.	3	Novemb.	4	Novemb.	4	Novemb.	4
Craft. Mart. Nov.	12	Novemb.	13	Novemb.	14	Novemb.	16
Octab. Mart. Nov.	18	Novemb.	19	Novemb.	20	Novemb.	21
Quind. Mart. Nov.	25	Novemb.	26	Novemb.	27	Novemb.	28

A Table of the KINGS and QUEENS of England since the Conquest

Kings and Queens names.		Born Anno	Began to reign.	Reigned		Since their Reigns ended.	Buried at
				Y.	M.		
William	1	1029	1066, Oct. 14	20	11	1604, Septem. 9	Caen No.
William	2	1056	1087, Sep. 9	12	11	1591, Auguſt 2	Winchel.
Henry	1	1068	1100, Aug. 2	35	4	1556, Decem. 1	Reding
Stephen		1105	1135, Dec. 1	18	11	1537, Octob. 12	Feverth.
The Saxon Line reſtor'd.							
Henry	2	1132	1154, Oct. 12	35	9	1502, July 6	Fountever
Richard	1	1155	1189, July 6	9	9	1492, April 6	Fountever
John		1165	1199, April 6	17	6	1475, Octob. 19	Worceſter
Henry	3	1207	1216, Oct. 19	56	1	1419, Nov. 16	Weſtmin.
Edward	1	1239	1272, No. 16	34	8	1384, July 7	Weſtmin.
Edward	2	1283	1307, July 7	19	6	1365, Jan. 25	Gloceſter.
Edward	3	1312	1326, Jan. 25	51	5	1314, June 21	Weſtmin.
Richard	2	1366	1377, Jun. 21	22	3	1202, Sept. 20	Weſtmin.
The Line of Lancaſter.							
Henry	4	1367	1399, Sep. 29	13	6	1278, Mar. 20	Canterb.
Henry	5	1387	1412, Mar. 20	9	5	1269, Aug. 31	Weſtmin.
Henry	6	1421	1422, Aug. 31	38	6	1221, Mar. 4	Windſor
The Line of York.							
Edward	4	1442	1460, Mar. 4	23	1	1208, April 9	Wincheſt.
Edward	5	1471	1483, Apr. 9	0	1	1208, June 18	Not kno.
Richard	3	1448	1482, Jun. 18	2	2	1204, Aug. 29	Leiceſt.
The Families United.							
Henry	7	1455	1485, Aug. 22	23	8	1182, April 24	Weſtmin.
Henry	8	1491	1509, Apr. 22	37	10	1144, Jan. 28	Windſor
Edward	6	1537	1547, Jan. 28	6	5	1138, Jun. 6	Weſtmin.
Qu. Mary		1516	1553, Jun. 6	5	4	1133, Nov. 17	Weſtmin.
Qu. Elizab.		1533	1558, No. 17	44	4	1088, March 24	Weſtmin.
The Union of the two Kingdoms.							
James	1	1566	1602, Ma. 24	22	0	1066, March 27	Weſtmin.
Charles	1	1600	1625, Ma. 27	23	11	1042, Janu. 30	Windſor
Charles	2	1630	1648, Jan. 30	36	0	1006, Febuar. 6	Weſtmin.
James	2	1633	1684, Feb. 6	3	0		
William & Mary		1650	1688, Feb. 1	Whom God grant long to live,			

You here may ſee a Race of Monarchs great,
Each for a time did fill the Royal Seat,
Then left the Throne: You ſee it fill'd again;
Pray God that theſe long time o'er us may reign,
Their Subjects multip'ly their Foes decreaſe,
Their Kingdoms have Proſperity and Peace. *Omnis poteſtas à De-*

A Table shewing the true hour and minute of the Moons coming to the South every day the first six Months of this Year, 1691.

Days	Jan.		Febr.		March		April		May		June	
	H.	M.	H.	M.	H.	M.	H.	M.	H.	M.	H.	M.
1	9	A.20	11	A. 6	9	A.56	11	A.20	11	A.45	0	M. 9
2	10	24	12	5	10	50	12	10	12	35	0	56
3	11	30	0	M. 5	11	42	0	M.10	0	M.35	1	44
4	12	31	1	0	12	33	1	0	1	27	2	32
5	0	M.31	1	50	0	M.33	1	48	2	18	3	20
6	1	32	2	40	1	23	2	40	3	10	4	7
7	2	28	3	30	2	10	3	32	4	0	4	50
8	3	17	4	19	3	0	4	22	4	48	5	32
9	4	6	5	8	3	50	5	12	5	34	6	14
10	4	56	5	56	4	42	6	2	6	17	6	56
11	5	48	6	45	5	33	6	50	7	0	7	41
12	6	38	7	34	6	24	7	35	7	42	8	30
13	7	27	8	23	7	13	8	20	8	24	9	24
14	8	15	9	12	8	2	9	4	9	8	10	20
15	9	3	10	0	8	48	9	48	9	56	11	22
16	9	48	10	45	9	33	10	32	10	50	12	25
17	10	33	11	30	10	17	11	16	11	44	1	A.28
18	11	18	12	15	11	1	12	6	12	42	2	28
19	12	3	1	A. 0	11	45	1	A. 0	1	A.44	3	24
20	12	48	1	45	12	29	1	58	2	46	4	16
21	1	A.30	2	30	1	A.16	2	56	3	44	5	4
22	2	12	3	15	2	8	3	54	4	40	5	52
23	2	55	4	4	3	2	4	54	5	34	6	40
24	3	40	4	58	3	58	5	52	6	25	7	20
25	4	27	5	56	4	56	6	48	7	15	8	16
26	5	15	6	56	5	55	7	40	8	5	9	4
27	6	3	7	56	6	54	8	30	8	54	9	52
28	7	0	8	58	7	52	9	18	9	43	10	42
29	8	3			8	48	10	6	10	31	11	34
30	9	5			9	40	10	55	11	21	12	27
31	10	7			10	30			12	9		

The Moons Southing for every day of the last Six Months of this Year 1691.

Days	July		August		Septemb.		October		Novemb.		Decemb.	
	H.	M.	H.	M.	H.	M.	H.	M.	H.	M.	H.	M.
1	0	M.27	1	M.25	2	M.24	2	M.52	4	M.38	5	M.16
2	1	16	2	7	3	12	3	48	5	34	6	0
3	2	0	2	48	4	0	4	46	6	28	6	48
4	2	42	3	30	4	50	5	45	7	20	7	36
5	3	24	4	15	5	45	6	44	8	12	8	26
6	4	46	5	2	6	42	7	40	9	2	9	16
7	4	38	5	50	7	40	8	34	9	53	10	6
8	5	11	6	48	8	42	9	26	10	44	11	0
9	6	8	7	46	9	44	10	18	11	35	11	52
10	7	8	8	46	10	40	11	10	12	26	12	43
11	8	2	9	48	11	34	12	1	1	A.20	1	A.33
12	9	0	10	50	12	24	12	56	2	14	2	22
13	10	0	11	50	1	A.18	1	A.48	3	6	3	8
14	11	3	12	46	2	8	2	41	3	55	3	52
15	12	6	1	A.40	3	2	3	34	4	41	4	32
16	1	A. 4	2	30	3	54	4	27	5	26	5	13
17	2	0	3	18	4	45	5	20	6	9	5	54
18	2	54	4	6	5	36	6	10	6	50	6	36
19	3	45	4	55	6	27	6	54	7	30	7	20
20	4	35	5	44	7	18	7	37	8	12	8	6
21	5	24	6	38	8	8	8	19	8	54	8	56
22	6	11	7	32	8	53	9	1	9	40	9	52
23	7	0	8	25	9	36	9	43	10	32	10	51
24	7	56	9	13	10	18	10	28	11	26	11	51
25	8	40	10	1	11	0	11	13	12	22	12	52
26	9	30	10	45	11	42	11	58	0	M.22	0	M.52
27	10	20	11	27	12	25	12	52	1	20	1	50
28	11	10	12	10	0	M.25	0	M.52	2	22	2	47
29	11	57	0	M.10	1	10	1	48	3	22	3	40
30	12	43	0	53	2	0	2	44	4	18	4	30
31	0	M.43	1	36			3	40			5	17

To find the time of High-water in most Coasts of England.

First seek the Moons Southing on the foregoing Table for your day, for then you may conclude it High-water at *Southampton*, *Quinborough*, and *Portsmouth*, for there the South and North Moons make a High-water: But when you desire the time of full Sea in any of the following Coasts in the ensuing Table, find the name of the place, and see how many Hours and Minutes be annexed thereunto in the Column under H. M. which added to the time of the Moons coming to South, gives you the time of High-water for the place required.

A Tide-Table, with the Names of the Havens.

	H.	M.
Rotheſter, Malden, Aberdeen,	0	45
Graveſend, Romney, Ramkins,	1	30
London, Tinmouth, Hartlepool,	3	0
Frith, Leith, Dunbar, Narbon,	4	30
Newcaſtle, Falmouth, Humber,	5	15
Lyn, Antwerp, Plymouth, Hull,	6	0
Briſtol, Lanion, Foulneſs,	6	45
Milford, Bridgwater, North-coaſt,	7	3
Portland, Peterport, Hartſtew,	8	51
Dover, Yarmouth, Harwich, Dublin,	10	30
Callice, Rye, Winchelſey, Calſhot,	11	15

Example.

The 24. of *May* this Year it is required to know the time of High-water at *London*: By the Tab. of the Moons Southing, over againſt the 24. of *May*, I find the Moon South at 6 Hours 25 Minutes in the Aftern. Then in the preceding Tide-Table againſt *London*, I find 3 Hours 0 Minutes, which added to 6 Hours 25 Minutes, makes 9 Hours 25 Minutes, being the time of High-water at *London* the 24. day of *May* in the Afternoon. So of any other.

NOTE, That the Tide floweth one point of the Compaſs more at the New and Full of the Moon, than at the Firſt and Laſt Quarters: as alſo the Latitude of the Moon and Winds, may alter it an hour ſooner or later.

Directions for the subsequent Diary or Almanack.

IN the first Column to the left hand, on the left-hand Page, you have the Numerical Figures of the days of the Month.

In the second Column you have the week days, and the Dominical Letter.

In the third Column you have the Saints days, and the places of the Planets once a Month; as also the Moons application to the fixed Stars, by which the Asterisms and Constellations may be easily known to an Ingenious eye and understanding.

In the fourth Column the Moons place in the Zodiack every day at noon.

In the fifth Column the Rising and Setting of the Moon, with respect to her Latitude.

In the sixth Column the Mutual Aspects of the Planets, with the general state of the Weather.

In the first Column on the Right-hand Page you have the English Account.

In the second Column you have the Roman Account.

In the third Column the Roman Week days.

In the fourth Column the perfect Roman Kalendar, and Saints days.

In the fifth Column you have Poetical Stories of the fixed Stars and Constellations, shewing the reason why such various Figures are fancied to be placed in Heaven.

The sixth, seventh, and eighth Columns, the utmost to the Right hand, shew you the daily Rising and Setting of the Sun.

On the top of the left hand Page is set the New and Full Moons, with the First and Last Quarters.

On the top of the right hand Page is set the Rising, Southing and Setting of the Planets.

January hath xxxi. days.

● Full Moon the 4 day, 20 min. past 11 in the morn.
☾ Last quarter the 11 day, at 8 in the morning.
● New Moon the 19 day, 30 min. past 10 in the morning.
☽ First quarter the 27 day, at 6 in the morning.

1	a	New-years day	gem.	10	5	M. 26	☽ Sets	♂ ☉ ☿ Windy
2	b	☽ n. dex. hu. Au.	gem.	25	6	40		weather with
3	c	☽ n. Syrius	canc.	10	7	48		rain, snow or
4	☉	☽ n. Procyon	canc.	25	Full	●		✱ ♄ ☿ sleet is
5	e	☽ n. Cor leonis	leo	10	5	A 23		expected at the
6	f	Epiphany	leo	25	7	0		begin, then more
7	g	♄ ♏ 27	virgo	10	8	33		✱ ☉ ♄ temper.
8	a	♃ ♈ 3	virgo	24	10	0		✱ ♃ ☿ for a
9	b	♂ ♐ 23	libr.	8	11	26	Moons Rising.	while, with some
10	c	Sol in Aquarius	libr.	21	12	45		light frosts, and
11	☉	1 Sun. past Eph.	scorp.	4	0	M. 45		seasonab. weath.
12	e	♀ ♒ 19 ℞	scor.	17	2	5		but about the
13	f	Hillary	scorp.	29	3	23		✱ ☉ ♃ 13th. ex-
14	g	☿ ♒ 13	sagit.	11	4	40		pect sharp wind,
15	a	☽ n. dex. hu. Op.	sagit.	23	5	42		with storms and
16	b	☽ n. luc. Lyr.	capr.	5	6	27		♂ ♀ ☿ right
17	c	☽ n. Caud. vult.	capr.	17	7	7		□ ♃ winterly
18	☉	2 Sun. past Eph	capri.	29	7	36		weather, & about
19	e	☽ n. sin. hu n. ♒	aqua	11	New	●		this time some
20	f	☽ n. Dex. hu. ♒	aqua.	23	5	A. 40		moisture, with
21	g	☽ n. Au. cap pis.	pisc.	5	6	50		remiss. of cold,
22	a	☽ n. Marchab.	pisc.	17	8	4	Moons Setting.	♂ ☉ ♀ afterw.
23	b	Term begins	pisc.	29	9	22		□ ♄ ☿ misty &
24	c	☽ n. Cap. And	aries	12	10	42		foggy weather
25	☉	Convers. S. Paul	aries	24	12	2		for some day. but
26	e	☽ n. An. Pe. And.	taur.	7	0	M. 2		towards the end
27	f	☽ n. Pleiades	taur.	21	1	22		of the month an
28	g	☽ n. Aldebaran	gem.	5	2	44		increase of the
29	a	☽ n. Alhaiot	gem.	19	4	6		cold, and also
30	b	K. Char. I. Mar.	canc.	4	5	25		windy weather
31	c	☽ n. Castor	canc.	18	6	19		is expected.

Saturn at the beginning riseth about 4 in the morning, at the end he riseth between 2 and 3.
Jupiter sets about 10 at night.
Mars riseth a little before the Sun.
Venus sets at the beginning betwixt 6 and 7 at night, but towards the end she is Combust.
Mercury is combust.

English Accom.	Forei. Accompt.	Rom. Kalenda.	Rom. Sts. Days.		*Poetical Stories.*					
1	21	D	Hyginus		*Bootes*, the driver of the	1	8 7	3	53	
2	22	E	Satyrius			2	5		55	
3	23	F	Hillary			3	4		56	
4	24	G	2 past Epip			4	2		58	
5	25	A	Maurus			5	8 1	3	59	
6	26	b	Marcellus			5	7 59	4	1	
7	27	c	Anthony			7	58		2	
8	28	d	Prisca			8	56		3	
9	29	e	Pontian			9	55		5	
10	30	f	Fab. Seb.			10	53		7	
11	31	G	3 past Epip			11	52		8	
12	32	a	Vincent			12	50		10	
13	33	b	Emerent			13	49		11	
14	34	c	Timothy			14	47		13	
15	35	d	*Conv. S. Paul*			15	46		14	
16	36	e	Policarp			16	7 44	4	16	
17	37	f	Chrysostom.			17	43		17	
18	38	G	4 past. Epiph.			18	41		19	
19	39	A	Samuel			19	39		21	
20	40	b	Adelgund			20	38		22	
21	41	c	Virgilius			21	36		24	
22	Febr.	d	Bridget			22	34		26	
23	2	e	Purif. Mary			23	33		27	
24	3	f	Blase			24	31		29	
25	4	G	5 past. Epiph.			25	29		31	
26	5	A	Agatha			26	7 27	4	33	
27	6	b	Dorothy			27	25		35	
28	7	c	Zachary			28	23		37	
29	8	d	Salome			29	21		39	
30	9	e	Apollon.			30	19		41	
31	10	f	Scholastica			31	7 17		43	

Limbs, he committed him to a Nymph of *Aetolia* to be kept

Full Moon the 2 day, 45 min. paſt 9 at night.
Laſt quarter the 9 day near midnight.
New Moon the 18 day, at 5 in the morning.
Firſt quarter the 25 day, at 5 in the afternoon.

Mon. Day.	Week Da.	Feſtival & Saints days, with the ☽ s applicatio. to the noted fix'd ſtars.	The ☽ s place in zodiack at Noon	The ☽ s riſing fro. the full to the change, & ſetting fr. the cha. to the F.			The mutu. Aſ of the Plan. with the var. conſt. of air & cha. of wea.
1	☉	Sun: paſt Epip.	leo 3	6	45		✶ ♈ ♀ Cold
2	c	Purificat. Mary	leo 18	Full	●	—	Winds and a froſty air, yet ſeaſonable weath. theſe days, but about the 8th. or 9th. days ſome brisk ☐ ☉ ♄ Winds with moiſture is expected, afterwards a more temperate ſeaſon for ſome days; but about this time expect a cold, cloudy, dark ♂ ☉ ☿ weather, and ſo continues cloſe and gloomy, with ſome black Froſt. ✶ ♄ ♂ and tow. *Shrove-Tueſday* the end variable weath. with wind. ☐ ♄ ☿ and alſo moiſture is expected.
3	d	☽ n. Cor. leon.	virg. 3	6	A. 00		
4	e	☽ n. Auſt. Al. ♍	virg. 18	7	26		
5	f	☽ n. Sin. Al. ♍	libra 3	8	54		
6	g	☽ n. Spica Virg.	libra 17	10	20		
7	a	☽ n. luc. Coron.	ſcorp. 0	11	45	Moons Riſing.	
8	☉	Septuageſima	ſcorp. 13	1	M. 8		
9	c	Sol in piſces	ſcorp. 26	1	8		
10	d	☽ n. ſi. H. H.	ſagit. 8	2	22		
11	e	☽ n. Dex. h. Op.	ſagit. 20	3	29		
12	f	Term ends	capri. 2	4	21		
13	g	☽ n. Caud. Vul.	capri. 14	5	6		
14	a	Valentine	capri. 26	5	36		
15	☉	Sexageſima	aqua. 8	5	56		
16	c	♄ ♍ 29	aqua. 20	6	12		
17	d	♃ ♈ 11	piſc. 2	6	27		
18	e	♂ ♍ 28	piſc. 14	New	●	—	☉ *Eclipſed inviſ.*
19	f	♀ ♒ 6 D.	piſc. 26	7	A. 10		
20	g	☿ ♓ 2 R.	aries 9	8	30		
21	a	☽ n. firſt ✶ Ar.	aries 21	9	54	Moons Setting.	
22	☉	Quinquageſima	taur. 4	11	20		
23	c		taur. 18	12	38		
24	d	S. Matthias	gem. 1	0	M. 38		
25	e	Aſh-Wedneſday	gem. 15	1	54		
26	f	☽ n. dex hu. Au.	gem. 29	3	0		
27	g	☽ n. Caſtor,	canc. 13	4	00		
28	a	☽ n. Aſelli	canc. 28	4	40		

Saturn at the beginning riseth about betwixt 1 and 2 in the morning, at the end he riseth about midnight, and is South betwixt 4 and 5 in the morning. *Jupiter* at the beginning sets betwixt 8 and 9, at the end he sets betwixt 7 and 8 at night. *Mars* and *Venus* rise a little before the Sun. *Mercury* at the end goeth from Combustion.

English Accompt.	Forein Accompt.	Roman Kalendar	Roman Saints days.	Ferie, state & concept.	Poetical Stories of the Stars.	☽	☉	♎	♏
1	11		Septuages.						
2	12	a	Severin		*Arcas* afterward coming	1	7 16	4	44
3	13	b	Agabus		to man's estate, and hunt-	2	14		46
4	14	c	Valentine		ing in the Woods, lighted	3	12		48
5	15	d	Faustin		at un-awares upon his	4	10		50
6	16	e	Juliana		Mother, transform'd by	5	8		52
7	17	f	Constance		*Juno* into the shape of a	6	6		54
8	18		Sexagesim.		Bear, whom he pursued	7	4		56
9	19	a	Sim. Ap		into the Temple of *Jupi-*	8	2	4	58
10	20	b	Eucharist		*ter-Lycæus*, whereunto by	9	7 0	5	0
11	21	c	Esaias		the Law of the *Arcadians*,	10	6 58	2	2
12	22	d	Peters Ch.		it was death for any man	11	56		4
13	23	e	Serenus		to come; forasmuch there	12	54		6
14	24	f	S. Matthias		fore as they must of like-	13	52		8
15	25		Quinquag.		lihood be both slain. *Ca-*	14	49		11
16	26	a	Nestor		*listo* by her Son, & he by	15	47		13
17	27	b	Shrove-tu.		the Law. *Jup.* to avoid this	16	45		15
18	28	c	Ash-wedn.		mischief, of mere pity	17	45		17
19	Mar.		David		took them both up into	18	6 41	5	19
20	2	e	Chad		Heaven. Unto this Con-	19	39		21
21	3	f	Cunigur		stellation belongeth but	20	37		23
22	4		Quadrages.		one Star unform'd, & it is	21	34		26
23	5	a	Eusebius		between th'Legs of *Bootes*,	22	32		28
24	6	b	Frederick		and by the Grecians 'tis	23	30		30
25	7	c	Felicitas		call'd *Arcturus*, because	24	28		32
26	8	d	Cyprian		of all the Stars near the	25	6 26	5	34
27	9	e	Prudence		great Bear call'd *Arctos*;	26	24		36
28	10	f	Michæas		this Star is first seen near	27	22		38
					her Tail in the Evening.	28	20		40

March hath xxxi. days.

● Full Moon the 4 day, 20 min. past 8 in the morning.
☾ Last quarter the 11 day, at 6 in the afternoon.
● New Moon the 19 day, 15 min. past 8 at night.
☽ First quarter the 26 day, near midnight.

1	♋	Quadragesima	leo	12	5	A. 10	☽ Sets.	Windy & season-
2	c	Chad	leo	27	5	30		able weath. at the
3	f	☽ n. P. Gen. Le.	virg.	12	5	50		beginning of the
4	g	☽ n. Aus. al. Vir.	virg.	26	Full	●		month, with
5	a	Ember Week	libr.	11	8	A. 0		□ ♄ ☿ some
6	b	☽ n. Spic. Virg.	libra.	25	9	24		storms of rain or
7	c	☽ n. luc. Coron.	scorp.	8	10	48		hail about this
8	♋	Sund. in Lent	scorp.	21	12	10		time, and also a-
9	e	☽ n. Cor. Scorp.	sagit.	4	0	M. 10	Moons Rising.	△ ☉ ♄ ✱ ♃ ☿
10	f	Sol in Aries	sagit.	16	1	26		bout the 8th. or
11	g	☽ n. dex. hu. Op.	sagit.	28	2	22		9th. days, afterw.
12	a	☽ n. lut. Lyræ	capr.	10	2	56		good seasonable
13	b	☽ n. luc. Vultur.	capr.	22	3	28		weath. is expect.
14	c	♄ ♏ 29 ℞	aqua.	4	4	0		and 'tis hoped it
15	♋	Sund. in Lent	aqua.	16	4	26		✱ ♃ ♂ may con-
16	e	♃ ♈ 17	aqua.	28	4	44		tinue sever. days,
17	f	♂ ♒ 19	pisces	10	4	57		& about the 16. d.
18	g	♀ ♒ 23	pisce.	22	5	10		some mists or
19	a	☿ ♓ 11	aries	5	New	●		drisl. rain with
20	b	☽ n. sin. Pes Au.	aries	18	7	A. 45		brisk gales of wi.
21	c	Benedict	taur.	0	9	15		about this time,
22	♋	Midlent Sunday	taur.	14	10	42		yet generally
23	e	☽ n. Pleiades	taur.	28	12	1	Moons Setting.	good weath. for
24	f	☽ n. Alhaiot	gem.	12	0	M. 1		the season, but ab.
25	g	Annunt. B. M.	gem.	26	1	14		□ ♄ ♀ the 23. &
26	a	☽ n. Syrius	canc.	10	2	14		25. some cold ra.
27	b	☽ n. Procyon	canc.	24	3	[illegible]		is expect. & tow.
28	c	☽ n. Aselli	leo	8	3	22		the end of the
29	♋	Sund. in Lent	leo	22	3	4[illegible]		month variable
30	e	☽ n. luc. terg le.	virg.	6	4	[illegible]		and unconstant
31	f	☽ n. Cau. leonis	virg.	21	4	18		weather.
								☌ ☉ ♃ □ ♄ ♂

Saturn is South betwixt 3 and 4 in the morning.
Jupiter at the beginning sets after the Sun, but at the end sets with him.
Mars riseth betwixt 4 and 5 in the morning, and so doth *Venus*.
Mercury all this month riseth a little before the Sun.

English Accom.	Forein Accom.	Rom. Kalendar.	Rom. Sts. Days.							
1	11	C		Reminiscer.		1	5	18	5	42
2	12	a		Gregorius,		2		16		44
3	13	b		Ernestus		3		14		46
4	14	c		Eutychus		4		12		48
5	15	d		Longinus		5		10		50
6	16	e		Cyriacus		6		8		52
7	17	f		Gertrude		7		6		54
8	18	G		Oculi		8		4		56
9	19	a		Joseph		9		2	5	58
10	20	b		Rupert		10	6	0	6	0
11	21	c		Benedict		11	5	58	6	2
12	22	d		Paulinus		12		56		4
13	23	e		Godfridus		13		54		6
14	24	f		Quirinus		14		52		8
15	25	G		An. B. V. M.		15		50		10
16	26	a		Cartulus		16		48		12
17	27	b		Jo. Erem.		17		46		14
18	28	c		Gideon		18		44		16
19	29	d		Eustace		19		42		18
20	30	e		Guido		20	5	40	5	20
21	31	f		Balbina		21		38		22
22	April			Judica		22		36		24
23	1	a		Mary Egyp.		23		34		26
24	2	b		Christian		24		32		28
25	3	c		Ambrose		25		30		30
26	4	d		Vincent		26		27		33
27	5	e		Sixtus		27		25		35
28	6	f		Cœlestin		28		23		37
29	7	G		Palm Sun.		29		21	6	39
30	8	a		Albinus		30	5	18		42
31	9	b		Ezechiel		31		16		44

Engonasis, this Constellation hath the Name because it is expressed under the shape of a Man kneeling upon one knee, and is therefore, by the *Latines*, called *Ingeniculum*: It containeth 29 Stars, and wanteth a proper Name, because of the great diversity of opinions concerning the same; for some will will have it to be *Hercules*, that mighty Conqueror, who for his Twelve Labors was thought worthy to be placed in Heaven, & nigh unto the Dragon whom he overcame; others tell the Tale thus, That when the *Tytans* fought against the Gods, they, for fear of the Gyants, ran all unto one side of the Heavens, whereupon the Heaven was ready to have fallen, had not *Hercules*, together with *Atlas*, set his Neck unto it, and stay'd the fall, & for his desert was plac'd in Heav-

Full Moon the 2 day, 15 m. part 7 at night.
Last quarter the 10 day, at 1 in the afternoon.
New Moon the 18 day, 30 min past 8 in the morn.
First quarter the 25 day, at 5 in the morning.

1	G	☽	n. Vindemiat.	libra	5	4	36		△ ♄ ☿ frequent
2	a	☽	n. Spic. Vir.	libra	19	Full	●	1	showers of rain
3	b	☽	n. luc. Coron.	scorp.	3	8	A. 32		at the beginning
4	c	☽	n. lu. Col. Ser.	scorp.	16	9	50		of the mon. with
5	D	Palm Sunday		scorp.	29	11	10		some brisk gales
6	e	☽	n. Cap. Her.	sagit.	12	12	22		of wind, afterw.
7	f	☽	n. dex. hu. Op.	sagit.	24	☽	M. 22		warm and pleas.
8	g	☽	n. luc. Lyræ	capr.	6	1	12		weath. for some
9	a	Sol in Taurus		capr.	18	1	55		days, and about
10	b	☽	n. luc vult.	aqua.	0	2	24		the 12th d. some
11	c	☽	n. left. sho. ♒	aqua.	12	2	4		mists or drisling
12	D	Easter day		aqua.	24	2	54		rain is expected,
13	e	♄ ♏ 28 ℞.		pisce.	6	3	8		afterw. winds &
14	f	♃ ♈ 24		pisce.	18	3	21		moist air, & ge-
15	g	♂ ♓ 10		aries	0	3	36		☌ ☍ ☿ nerally
16	a	☿ ♓ 20		aries	13	4	47		good & seasonab.
17	b	☿ ♈ 27		aries	27	4	00		weath. with some
18	c	☽	n. Au P. An.	taur.	10	New	●	1	showers of rain a-
19	D	Low Sunday		taur.	24	9	A. 52		bout the New ☾,
20	e	☽	n. Aldeba.	gem.	8	11	8		then warm and
21	f	☽	n. hu. Aur.	gem.	21	12	1		pleas. for some
22	g	☽	n. Syrius	canc.	6	☽	M. 10		△ ♄ ☿ days, &
23	a	S. George		canc.	20	1	00		no great alterat-
24	b	☽	n. Asellus	leo	5	1	30		ion is expected,
25	c	S. Mark		leo	19	1	52		only some brisk
26	D	2 Sun. past East.		virg.	3	2	10		☌ ☉ ☿ winds a-
27	e	☽	n. clud. leon.	virgo	16	2	26		bout the 25th or
28	f	☽	n. Vindemiat.	libr.	0	2	41		✶ ☍ ☿ 26. days,
29	g	Term begins		libr.	14	2	57		but at the end
30	a	☽	n. luc. coron.	libr.	28	4	10		some showers of
									rain.

Moons Rising. Moons Setting.

Saturn at the beginning is South betwixt 2 and 3 in the morning, at the end he is South before 1.
Jupiter at the beginning is combust, but toward the end he emergeth from under the Sun-beams.
Mars and *Venus* rise between 3 and 4 in the morning.
Mercury toward the end goeth to combustion.

English Accom.	Forein. Accom.	Rom. Kalendar	Kom. St. days.								
1	11	f	Leo, Pap.	*Triangulum*, the Trian-	1	5	14	5	46
2	12	g	July Bish.	gle, called also *Deltoton*,	2		12		48
3	13	a	Justinus	because it is like the	3		10		50
4	14	b	Tiburtius	fourth Letter of the Gr.	4		8		52
5	15	☉	Pascha	Alphabet Δ, which they	5		6		54
6	16	d	Carisius	call *Delta*; it consisteth	6		4		56
7	17	e	Anicetus	of four Stars. They say	7		2	6	58
8	18	f	Apollon.	it was placed in Heaven	8	5	0	7	0
9	19	g	Timothy	by *Mercury*, that thereby	9	4	58	7	2
10	20	a	Sulpitius	the Head of the Ram	10		56		4
11	21	b	Adelarius	might be the better	11		54		6
12	22	☽	Quasimod.	known; others say that	12		52		8
13	23	d	S. George	it was placed there in	13		50		10
14	24	e	Albertus	honor of the Geometri-	14		48		12
15	25	f	S. Mark	cians, amongst whom the	15		46		14
16	26	g	Cletus	Triangle is of no small	16		44		16
17	27	a	Anastasius	importance; others af-	17		42		18
18	28	b	Vitalis	firm, that *Ceres* in time	18	4	41	7	19
19	29	☽	Misericord.	past requested *Jupit.* that	19		39		21
20	30	d	Josua	there might be placed in	20		37		23
21	May	e	S. Phil. & Ja.	Heaven, some Figure re-	21		36		24
22	2	f	Athanasius	presenting the form of	22		34		26
23	3	g	Inv. Crucis	*Sicily*, an Island greatly	23		33		27
24	4	a	Florian	beloved of *Ceres* for the	24		31		29
25	5	b	Gothard	fruitfulness thereof; now	25	4	30	7	30
26	6	c	Jubilate	this Island being Trian-	26		28		32
27	7	d	Juvenal	gular (at her request)	27		26		34
28	8	e	Stanislaus	was represented in the	28		25		35
29	9	f	Hiobe	Heaven under that form.	29		23		37
30	10	g	Pancratius		30		21		39

● Full moon the 2 day, 15 min. past 7 in the morning.
◐ Last quarter the 10 day, at 8 in the morning.
● New Moon the 17 day, 30 min. past 6 in the afternoon.
◑ First quarter the 24 day, at noon.
● Full Moon the 31 day, at 8 at night.

1	b	S. Phil. & Jac.	scorp.	1	13		24		♂ ♄ ☿ Wind &
2	c	☽ n. dex. hu. He.	scorp.	24	Full		●		Rain at th'begin-
3	d	☽ Sun. past East	sagit.	7	10	A	10		ning, also about
4	e	☽ n. dex. hv. Op.	sagit.	29	11		15		the 5th, 6th, and
5	f	☽ n. luc. Lyræ	capr.	2	12		0		△ ♄ ♂ 7th days
6	g	☽ n. Caud. Vult.	capr.	14	0	M.	0		☌ ☉ ♄ plenty of
7	a	☽ n. luc. Vult.	capr.	26	0		26		showers, and I
8	b	☽ n. sup. Al. Cyg.	aqua.	8	0		43		fear that this
9	c	☽ n. inf. Al. Cyg.	aqua.	20	1		0		month in gene-
10	d	4 Sun. past East	pisces	2	1		17		* ☉ ♂ ral may
11	e	Sol in Gemini	pisc.	14	1		30		prove too wet,
12	f	♄ ♏ 26	pisces	26	1		42		* ☿ ♀ especial-
13	g	☿ ♉ 1	aries	8	1		55		ly till aft the new
14	a	♂ ♈ 3	aries	21	2		8		Moon, I wish it
15	b	♀ ♈ 22	taur.	5	2		20		prove not preju-
16	c	☿ ♊ 25	taur.	19	2		32		dicial to Corn
17	d	☽ Sun. past East.	gem.	3	New		●		upon cold Lands,
18	e	☽ n. Alhaiot	gem.	17	9	A.	56		aft. the New ☽
19	f	☽ n. Syrius	canc.	2	10		54		it is hoped we
20	g	☽ n. Castor	canc.	16	11		36		may have more
21	a	Ascensio Dom.	leo	1	12		2		* ♃ ☿ temper.
22	b	☽ n. Au. Ca. leo	leo	15	0	M.	2		and pleas. wea-
23	c	☽ n. Cor leonis	leo	29	0		24		ther for some d.
24	d	6 Sun. past East	virg.	13	0		40		and that it may
25	e	Term ends	virg.	27	0		54		☌ ♃ ☿ continue
26	f	☽ n. Vindemiat.	libra	11	1		8		without much al-
27	g	☽ n. Spic. Virg.	libra	24	1		22		teration, till tow.
28	a	☽ n. luc. Coron.	scorp.	7	1		38		the end of the M.
29	b	☽ n. luc. col. Ser.	scorp.	20	1		52		which probably
30	c	☽ n. Cor Scorp.	sagit.	3	2		6		produceth wind
31	d	Whitsunday	sagit.	16	Full		●		and rain.

Moons Setting. — Moons Rising.

MAY, 1691.

Saturn *is South at Midnight.* Jupiter *and* Venus *towards the end, Rise very near together, betwixt* 3 *and* 4 *in the Morning.* Mars *riseth about* 2 *in the Morning.* Mercury *emergeth from the Sun-beams, and towards the end may be seen, setting not till near* 10 *at Night.*

Engl. Accompt.	For. Accompt.	Rom. Kalendar.	Rom. Saints da.						
1	11	e	Christian	*Argo Navis*, The *Ship*	1	4	19	7	41
2	12	f	Gordian	*Argo*, which comprehend-	2		17		43
3	13	☉	Cantate	eth 41 *Stars*. This is the	3		15		45
4	14	a	Fortuna	Ship wherein *Jason* did	4		14		46
5	15	b	Sophia	fetch the *Golden Fleece* from	5		12		48
6	16	c	Peregrin	*Colchis*; which was after-	6		10		50
7	17	d	Jodocus	wards placed in Heaven as	7		9		51
8	18	e	Venant	a memorial, not only of the	8	4	8	7	52
9	19	f	Sarah	great Voyage, but also be-	9		6		54
10	20	☉	Rogat. Sun.	cause (as some will have it)	10		5		55
11	21	a	Prudent.	it was the first Ship where-	11		3		57
12	22	b	Helena	in any man Sailed: Their	12		2		58
13	23	c	Esther	Reason why this Ship is	13		1	7	59
14	24	d	Ascen. Do.	not made whole is, that	14	4	0	8	0
15	25	e	Urbanus	thereby Men might be put	15	3	59	8	1
16	26	f	Edward	in mind, not to despair, al-	16		58		2
17	27	☉	Exaudi	beit that their Ship mis-	17		57		3
18	28	a	Wilhelm	carry in some part now	18		55		5
19	29	b	Maximia	and then; Some avouch it	19		54		6
20	30	c	Wigand	to be the Ark of *Noah*	20		53		7
21	31	d	Petronel	In one of the Oars of	21		52		8
22	June	e	Nicomed	this ship there is a great	22		51		9
23	2	f	Marcellin	Star, called *Canopus*, or *Ca-*	23		50		10
24	3	☉	Pentecost	*nobus*. Some say that *Ca-*	24	3	49	8	11
25	4	a	Quirinus	*nobus*, the Master of *Mene-*	25		48		12
26	5	b	Boniface	*laus* his Ship was trans-	26		47		13
27	6	c	Artemid	formed into this Star. It	27		46		14
28	7	d	Paul Ep.	is not seen in *Italy*, nor in	28		45		15
29	8	e	Medardus	any Country on this side	29		45		16
30	9	f	Barnius	of *Italy*.	30		44		17
31	10	☉	Trin. Sun.	*Hydra*,	31	3	44	8	18

☾ Laſt Quarter the 8 day, near Midnight.
● New Moon the 16 day, 30 min. paſt 2 in the morning.
☽ Firſt Quarter the 22 day, at 6 at night.
○ Full Moon the 30 day, 30 min. paſt 10 in the morning.

1	e	☽ n. luc Dra. C.	ſagit.	28	9	A	45	Good ſeaſonable weather is expected ✶ ☿ ☿ at the beginning of the Month, and about the 6th day miſty, or driſling, with an increaſe of heat, and ſo continues till about the 12th or 13th day; then we ☌ ♄ ☿ may expect ſhowrs of Rain, with Wind, and uncertain weather for ſome days. But about this time more ſetled weather; yet ✶ ☉ ♃ with ſome briſk Gales of ☌ ☉ ☿ wind, and probably ſome ✶ ♃ ☿ ſhowers alſo about the 25th or 26th days; afterwards ſeaſonable weather is expected to the end ✶ ☌ ☿ the Month.
2	f	☽ n. luc. Lyræ	capr.	10	10		25	
3	g	☽ n. Luc. Vult.	capr.	22	10		50	
4	a	Ember Week	aqua.	4	11		8	
5	b	☽ n ſin Hum. ♒	aqua.	16	11		21	
6	c	☽ n Fomahaut	aqua.	28	11		34	
7	d	Trinity Sund.	piſces	10	11		47	
8	e	☽ n. Cand. Ceti	piſces	24	12		0	
9	f	☽ n. Algenib.	aries	4	☽	M	0	
10	g	☽ n. ſin. Peſ. And	aries	16	0		12	
11	a	S. Barnabas	aries	29	0		24	
12	b	Term begins	taur.	13	0		36	
13	c	☽ n. Pleiades	taur.	27	0		52	
14	d	☉ Sun. paſt Trin.	gem.	11	1		22	
15	e	♄ ☍ 24.	gem.	26	2		9	
16	f	♃ ☋ 20.	canc.	11	New		●	
17	g	♂ ♈ 27.	canc.	26	10	A	0	
18	a	☿ ♊ 1.	leo	11	10		18	
19	b	☿ ♋ ♀ R.	leo	5	10		36	
20	c	☽ n. Caud. Leon.	virgo	10	10		52	
21	d	☉ S. paſt Trin.	virgo	24	11		7	
22	e	☽ n Cing. Virg.	libr.	7	11		22	
23	f	☽ n. Spica Virg.	libr.	21	11		38	
24	g	S. John Baptiſt	ſcorp.	4	11		52	
25	a	☽ n. luc. Col. Ser.	ſcor.	17	12		6	
26	b	☽ n. Cor. Scorp.	ſagit.	0	0	M	6	
27	c	☽ n. Cap. Herc.	ſagit.	12	0		26	
28	d	☉ Sun. paſt Trin.	ſagit.	25	1		2	
29	e	S. Pet. & S. Paul	capr.	7	2		00	
30	f	☽ n. luc. Vultur.	capr.	19	Full		○	

Moons riſing.

Moons ſetting.

Saturn *is south betwixt* 9 *and* 10 *at night.*
Jupiter *riseth betwixt* 1 *and* 2 *in the morning.*
Mars *riseth before* 1 *in the morning.*
Venus *riseth about* 2 *in the morning.*
Mercury *goeth to Combustion.*

Engl. Accompt.	For. Accompt.	Rom. Kalendar.	Rom. Saints da.								
1	11	a	St. Barnab.	*Hydra*, the *Hyder*; it	1	3	44	8	16
2	12	b	Blandin	hath 25 Stars, and two un-	2		43		17
3	13	c	Cyrillus	formed. ——— *Crater*,	3		43		17
4	14	d	Corp. Chr.	the *Cup* or *Standing-Piece*,	4		42		18
5	15	e	Vitus	that hath 7 Stars ———	5		42		18
6	16	f	Rulandus	*Corvus*, the *Crow*; this hath	6		42		18
7	17	g	S. p. Trin.	7 Stars. These three Con-	7		41		18
8	18	a	Homer	stellations are to be joyned	8		41		19
9	19	b	Gervase	together, because they de-	9		41		19
10	20	c	Regina	pend upon one History,	10		41		19
11	21	d	Albanus	which is this: Upon a	11	3	41	8	19
12	22	e	Acharius	time *Apollo* made a solemn	12		41		19
13	23	f	Basilius	Feast to *Jupiter*, and want-	13		41		19
14	24	g	S. Jo. Bapt.	ing Water to serve his	14		41		19
15	25	a	Elogius	turn, he delivered a Cup to	15		42		18
16	26	b	Jeremias	the *Crow* (the Bird where-	16		42		18
17	27	c	7 Dorm.	in he chiefly delighted)	17		42		18
18	28	d	Leo P.	and sent him to fetch Wa-	18		42		18
19	29	e	S. Pet. & P.	ter therein: The *Crow* fly-	19		43		17
20	30	f	Conv. Paul	ing toward the River,	20	3	43	8	17
21	July	g	S p. Trin.	espied a *Fig-Tree*, fell in	21		44		16
22	2	a	Visit. V. M.	hand with the *Figs*, and	22		44		16
23	3	b	Cornelius	stay'd there till they were	23		44		16
24	4	c	Ulricus	ripe. In the end, when he	24		45		15
25	5	d	Anselm	had fed his till of them,	25		45		15
26	6	e	Hector	and had satisfied his Long-	26		46		14
27	7	f	Demetrius	ing, he bethought himself	27		47		13
28	8	g	4 S p. Trin.	of his Errand, and by rea-	28		48		12
29	9	a	Cyrillus	son of his long delay, fearing	29		49		11
30	10	b	7 Fratres		30	3	50	8	10

☾ Last Quarter the 8 day, at 2 in the afternoon.
☽ New Moon the 15 day, at 15 min. past 9 in the morning.
First Quarter the 22 day, at 2 in the morning.
Full Moon the 30 day, 45 min. past 1 in the morning.

1	g	[illegible]	aqua.	1	9	A	2	
2	a	☽ n. sin. hum. ♒	aqua	13	9		16	
3	b	☽ n. Os. Pegasi	aqua.	25	9		30	
4	c	☽ n. Marchab.	pisces	6	9		45	
5	[illegible]	4 S. past Trin.	pisc.	18	10		00	Moons Rising.
6	e	☽ n. Algenib.	aries	0	10		15	
7	f	☽ n. sin. Peg. An.	aries	1[illegible]	10		30	
8	g	☽ n. pr. ✶ Aries	aries	25	10		45	
9	a	☽ n. aus. pes. And	taur.	8	11		00	
10	b	☽ n. Pleiades	taur.	21	11		1[illegible]	
11	c	☽ o. Aldebaran	gem	6	11		40	
12	[illegible]	5 S. past Trin.	gem.	19	12		3[illegible]	
13	e	Sol in Leo	canc.	4	[illegible]	M	36	
14	f	☽ n. Pollux	canc.	19	2		00	
15	g	☽ within.	leo	4				—
16	a	☽ n. Cor Leonis	leo	19	3	A	40	
17	b	♄ ♏ 23 st.	virgo	4	3		5[illegible]	
18	c	♃ ♉ 12	virgo	19	9		9	
19	[illegible]	6 S. past Trin.	libra	3	9		2[illegible]	
20	e	♂ ♉ 20	libra	17	9		4	Moons Setting.
21	f	♀ ♋ 10	scorp.	1	9		5[illegible]	
22	g	☿ ♋ 22	scorp.	14	10		20	
23	a	☽ n. sin. ma. Oph.	scorp.	27	10		4[illegible]	
24	b	☽ n. Cap Hercul	sagit.	9	11		1[illegible]	
25	c	St. James	sagit.	21	11		56	
26	[illegible]	7 S. past Trinity	capr.	4	12		46	
27	e	☽ n. Caud. Vult.	capr.	16	0	M	46	
28	f	☽ n. luc. Vult.	capr.	28	2		00	
29	g	☽ n. sin. hum. ♒	aqua.	10	3		24	
30	a	☽ n. Os. Pegasi	aqua.	21				—
31	b	☽ n. Fomahaut.	pisces	3	8	A	00	

An increase of heat is expected at the beginning, with some misty Mornings △ ☉ ♄ about ☌ ♃ ♂ the third day; and about the 6th day some Thunder too; afterwards seasonable weather is expected, and in all probability may con- ✶ ♃ ☿ tinue without much alteration till after the First Quarter, then expect some brisk gales of wind; and about the 25th or ✶ ♂ ☿ 26th days △ ♄ ☿ ✶ ♃ ♀ Thunder and Rain there- ☍ ♄ ♂ with, □ ☉ ♃ and variable weather for some days, and about the Full Moon some misty weather, or dusling Rain.

Saturn *sets betwixt* 1 *and* 2 *in the Morning.*
Jupiter *and* Mar, *at the beginning rise very near together, a little before Midnight.*
Venus *riseth betwixt* 2 *and* 3 *in the morning.*
Mercury *riseth before the* Sun.

Engl. Accompt.	For. Accompt.	Rom. Kalendar.	Rom. Saints da.	
1	11	c	Plus	a Check, he caught up a
2	12	d	Henricus	*Snake* in his Bill, brought it
3	13	e	Margaret	to *Apollo*, and told him, That
4	14	f	Bonavent.	the *Snake* would not let
5	15			him fill the Cup with Wa-
6	16	a	Hillarius	ter. *Apollo* seeing the impu-
7	17	b	Alexius	dence of the Bird, gave him
8	18	c	Maternus	this gift. That as long as the
9	19	d	Ruffina	*Figs* were not ripe upon
10	20	e	Elias	the Tree, so long he should
11	21	f	Daniel	never drink; and for a me-
12	22		S. p. Trin.	morial of the silly Excuse
13	23	a	Apollin.	which he made, he placed
14	24	b	Christina	both the *Crow*, *Cup*, and
15	25	c	S. James	*Snake* in Heaven.
16	26	d	Anna	
17	27	e	Martha	*Centaurus*, the *Centaur*,
18	28	f	Panthol.	which comprehendeth 37
19	29		S. p. Trin.	Stars. Some say, that this is
20	30	a	Abdon	*Typhon*, others call him *Chi-*
21	31	b	German	*ron*, the Schoolmaster of
22			Lammas	those three excellent Men,
23	2	d	Moses	*Hercules*, *Achilles*, and *Æscu-*
24	3	e	Dominic.	*lapius*; unto *Hercules* he read
25	4	f	Aristarch.	Astronomy; he trained
26	5		S. p. Trin.	*Achilles* in Musick; and
27	6	a	Sixtus	*Æsculapius* in Physick; and
28	7	b	Afra	for his Upright Life he
29	8	c	Ladislaus	was turned into this Con-
30	9	d	Romin.	stellation; yet *Virgil* cal-
31	10	e	Laurence	

1	13	51	8				
2		52		9			
3		53		8			
4		54		7			
5		55		6			
6		56		5			
7		58		4			
8	3	59	8	2			
9	4	0	8	1			
10		1	7	0			
11		3		59			
12		5		57			
13		6		55			
14		7		54			
15		9		53			
16		10		51			
17		11		50			
18		13		49			
19		14		47			
20	4	16	7	46			
21		17		44			
22		19		43			
23		20		41			
24		22		40			
25		24		38			
26		25		36			
27		27		35			
28		29		33			
29		30		31			
30	4	32	7	29			
31		34		28			

☾ Laſt Quarter the 6 day, at 1 in the morning.
● New Moon the 13 day, at 5 in the afternoon.
☽ Firſt Quarter the 20 day, at 2 in the afternoon.
○ Full Moon the 28 day, 45 min. paſt 5 in the afternoo.

1	c	Lammas	piſces	15	8	A 10		△ ♄ ♀ Expect
2	D	8 paſt Trinity	piſces	27	8	21		□ ♅ ♀ frequent
3	e	☽ n.Cap. Andr.	arles	9	8	32		and briſk Gales of
4	f	☽ n. Pr. ✶ Ar.	arles	22	8	44		Wind all the former
5	g	☽n. Auſ. peſ. An.	taur.	4	9	00		part of this Month,
6	a	☽n. Cap. Meduſ.	taur.	17	9	20		□ ☉ ♄ not with-
7	b	☽ n. Aldebar.	gem.	0	9	48		□ ♄ ♀ out ſome
8	c	☽ n. Alhalot	gem.	14	10	27		✶ ♂ ♀ ſhowers
9	D	9 paſt Trinity	gem.	28	11	16		♂ ☉ ♀ of Rain,
10	e	St. Lawrence	canc.	12	12	54		and (if I miſtake not)
11	f	☽ n. Aſelli.	canc.	27	0	M 54		ſome ſhowers of Rain
12	g	☽n. Auſ. Ca. Leo	leo	12	2	34		□ ♂ ♀ about
13	a	☉ Sol in Virgo	leo	27	New	●	I	☉ Eclipſed inviſible
14	b	♄ ♍ 23 D	virg.	12	7	A 20		the New Moon with
15	c	♅ ♂ 14 St.	virg.	28	7	34		Thunder, which be-
16	D	10 paſt Trinity	libr.	12	7	48		ing paſt, 'tis then
17	e	♂ ♊ 7	libr.	26	8	2		□ ♅ ♀ hop'd
18	f	♀ ♌ 18	ſcorp.	10	8	20		△ ♅ ♀ that we
19	g	☿ ♍ 16	ſcorp	23	8	44		may have ſeaſonable
20	a	☽ n. Cor. Scorp.	ſagit.	6	9	14		and good Harveſt
21	b	☽ n. dex. hu. Op.	ſagit.	19	9	56		weather for ſome
22	c	☽ n. luc. Lyræ	capr.	1	10	54		days, but not without
23	D	11 paſt Trinity	capr.	13	12	2		□ ☉ ♂ ſome briſk
24	e	S. Bartholomew	capr.	25	0	2		✶ ♄ ♀ gales of
25	f	☽ n. luc. man. ♒	aqua.	6	1	15		□ ♄ ♀ Wind other-
26	g	☽ n. dex. hu. ♒	aqua.	18	2	30		whiles. But about the
27	a	☽n. Fomahaut	piſces	0	3	45		△ ☉ ♅ 27th foggy
28	b	☽n. Marchab. P.	piſces	12	☽	○	I	weather, with ſome
29	c	☽n. Algenib.	piſces	24	6	A 40		ſhowers of Rain, yet
30	D	12 paſt Trinity	aries	6	6	50		at the end more ſea-
31	e	☽ n. ſin. peſ. An.	aries	19	7	00		ſonable.

Moon Riſing. | Moons Setting. | ☽'s Rif.

Saturn *sets betwixt* 9 *and* 10 *at night.*
Jupiter *riseth betwixt* 9 *and* 10 *at night.*
Mars *riseth about* 10 *at night.* Venus *riseth about* 3 *in the morning.* Mercury *at the beginning goeth to Combustion; at the end he emergeth from the Sun-beams, and sets after him.*

Engl. Accompt.	Per. Accompt.	Rom. Kalendar.	Rom. Saint. da.							
1	11	f	Titus	leth *Sagittarius*, by the	1	4	35	7	23
2	12	g	9 S.p.Trin.	N me of *Chiron:* In the	2		39		21
3	13	a	Hypolit.	Hinder-feet of this Con	3		41		19
4	14	b	Bertram.	ſtellation, thoſe Stars are	4		42		18
5	15	c	Aſſump. M.	ſet, which are called the	5		44		16
6	16	d	Rochus	*Croſiers*, appearing to the	6		46		14
7	17	e	Agepitus	Mariners, as they ſail to-	7		48		12
8	18	f	Helena	ward the South Sea, in the	8		50		10
9	19	g	10 S.p.Trin	form of a *Croſs*, where-	9		52		8
10	20	a	Bernard	upon they have their	10		54		6
11	21	b	Athanaſius	Name.	11		56		4
12	22	c	Symphor		12	4	58	7	2
13	23	d	Zachæus	*Lupus*, the *Wolf*; or the	13	5	0	7	0
14	24	e	S. Barthol.	Beaſt which the *Centaur*	14		16		56
15	25	f	Ludovic.	holdeth in his hand, con-	15		3		57
16	26	g	11 S.p.Trin	taineth 19 Stars: The Poe-	16		5		55
17	27	a	Gebhard	tical Reaſon is this; *Chi-*	17		7		53
18	28	b	Auguſtine	*ron*, the *Centaur*, being a	18		8		52
19	29	c	Decol. J. B.	Juſt Man, was greatly	19		10		50
20	30	d	Fœlix P.	given to the worſhip of	20	5	12	6	48
21	31	e	Paulinus	the Gods: For which	21		14		46
22	Sept.	f	Ægidius	thing, that it might be	22		16		44
23	2	g	12 S.p.Trin.	notified to all Poſterity,	23		18		42
24	3	a	Euphem.	they placed him by this	24		20		40
25	4	b	Theodoſe	Beaſt, which he ſeemeth	25		22		38
26	5	c	Zachary	to ſtick and thruſt through	26		24		36
27	6	d	Magnus	with his Spear, (as it	27		26		34
28	7	e	Regina	were) ready to kill for Sa	28		28		32
29	8	f	Nat. V. M.	crifice.	29		31		29
30	9	g	13 S.p. Trin.		30	5	33	6	27
31	10	a	Soſtheres		31		35		24

September hath xxx Days.

☾ Last Quarter the 5 day, at 10 in the morning.
● New Moon the 12 day, 15 min. past 1 in the morning.
☽ First Quarter the 19 day, at 6 in the morning.
○ Full Moon the 27 day, at 10 in the morning.

1	f	☽ n. cing Andr.	taur.	1	7		14		
2	g	☽ n. aus. p. s. Ar.	taur.	14	7		30		
3	a	☽ n. Pleiades	taur.	27	7		54		
4	b	☽ n. Aldebran	gem.	10	8		44		
5	c	☽ n. dex. hu. aur.	gem.	24	9		30		
6	☉	13 past Trinity	canc.	7	10		44		
7	e	☽ n. Pollux	canc.	21	12		18		
8	f	☽ n. Aselli	leo	6	0	M	18		
9	g	☽ n. Cor. Leonis	leo	21	1		52		
10	a	☽ n. luc. ter. Leo	virg.	6	3		26		
11	b	☾ n. aus. al. Virg.	virg.	21	5		00		
12	c	☽ n. Vindemiat.	libr.	6	New ●				
13	☉	14 past Trinity	libr.	20	6	A	10		
14	e	☽ n. Luc. Coron.	scorp.	5	6		30		
15	f	☽ n. luc. Col. Ser.	scor.	18	7		00		
16	g	Ember Week	sagit.	2	7		52		
17	a	♄ ♏ 26	sagit.	15	8		6		
18	b	♃ ♉ 13 R.	sagit.	27	8		54		
19	c	♂ ♊ 23	capr.	9	10		00		
20	☉	15 past Trinity	capr.	21	11		14		
21	e	St. Matthew	aqua.	3	12		32		
22	f	♀ ♍ 28	aqua.	15	0	M	32		
23	g	☿ ♏ 5	aqua.	27	1		46		
24	a	☽ n. Marchab.	pisces	9	3		00		
25	b	☽ n. Cand. Ceti	pisc.	21	4		14		
26	c	☽ n. Algenib.	aries	3	5		25		
27	☉	16 past Trinity	aries	15	Full ○				
28	e	☽ n. pr. ✱ Aries	aries	28	5	A	30		
29	f	S. Michael	taur.	11	5		48		
30	g	☽ n. Pleiades	taur.	24	6		08		

Moons Riling. — Moons Setting — ☽'s Ris.

This Month 'th hoped may prove mild and temperate, with now and then some showers, and very often Rain-like, ✱ ☉ ♄ with cool and gloomy days, △ ♂ ☿ inclining to moisture, and △ ♃ ♀ probably no great alteration till about the 15th or 16th days, which may produce some brisk Gales of □ ♂ ♀ Wind, and about this time Rain-like weather is ✱ ♄ ♀ expected; also about the 23th day, Close and Foggy weather for some days: But towards the end of the Month more lightsom and pleasant weather is expected.

Saturn *sets about* 8 *at night.*
Jupiter *at the beginning is South a little after* 3 *in the Morning, at the end it is South betwixt* 1 *&* 2.
Mars *riseth about* 9 *at night.*
Venus *riseth betwixt* 4 *and* 5 *in the morning.*
Mercury *sets after the Sun.*

Engl. Accompt.	For. Accompt.	Rom. Kalendar.	Roman Calends.							
1	11	b		Theobald	*Ara*, the *Altar*; it is also	1	5	37	5	23
2	12	c		Tobias	called *Lar*, or *Thuribulum*;	2		39		21
3	13	d		Amatus	(*i.e.*) a *Chimney with the*	3		41		19
4	14	e		Exalt. Cr.	*Fire*, or a *Censor*; it con-	4		43		17
5	15	f		Nicomed.	sisteth of 7 Stars, and is	5		45		15
6	16	g	14 S. p. Trin		affirmed by some Poets, to	6		47		13
7	17	a		Lambert	be the Altar whereon the	7		49		11
8	18	b		Ferriolus	*Centaur* was wont to offer	8		51		9
9	19	c		Januarius	up his Sacrifice: But o-	9		53		7
10	20	d		Fausta	thers tell the Tale thus;	10	5	55	6	5
11	21	e		S. Matthew	Whenas the great Giants,	11		57		3
12	22	f		Maurice	cast the *Tytans*, laboured	12		59	6	1
13	23	g	15 S. p. Trin		as much as might be,	13	6	1	5	59
14	24	a		Rupert	to pull *Jupiter* out of	14		3		57
15	25	b		Cleophas	Heaven; the Gods thought	15		5		55
16	26	c		Cyprian	it good to lay their Heads	16		7		53
17	27	d		Judith	together, to advise what	17		9		51
18	28	e		Wencesla	was best to be done. Their	18		11		49
19	29	f		S. Michael	conclusion was this, That	19		13		47
20	30	g	16 S. p. Trin		they would all with one	20	6	15	5	45
21				Remiglus	consent joyn hands toge-	21		17		43
22	2	b		Leodegar.	ther to keep out such Fel-	22		19		41
23	3	c		Simplic.	lows; and that this their	23		21		39
24	4	d		Francisc.	League might be confirm-	24		23		37
25	5	e		Fides	ed, and throughly ratified,	25		25		35
26	6	f		Aurelia	they caused the *Cyclops*,	26		27		33
27	7	g	17 S. p. Trin		(which were Workmen of	27		29		31
28	8	a		Pelagia	*Vulcan*) to make them an	28	6	32	5	28
29	9	b		Dionysius	Altar: About this Altar	29		34		26
30	10	c		Gideon	all the Gods assembled,	30		36		24

and

☾ Laſt Quarter the 4 day, at 6 at night.
● New Moon the 11 day, 20 min. paſt 11 in the morning.
☽ Firſt Quarter the 19 day, at 1 in the morning.
○ Full Moon the 27 day, at 1 in the morning.

1	a	☽ n. Aldebaran.	gem.	7	5	A	42	
2	b	☽ n. dex. hu. aur.	gem.	21	7		34	
3	c	☽ n. Syrius	canc.	4	8		36	
4	D	19 paſt Trinity	canc.	18	10		00	
5	e	☽ n. Aſelli	leo	2	11		28	
6	f	☽ n. Cor. leonis	leo	16	12		55	
7	g	☽ n. luc. ter. leo.	virg.	0	0	M	56	
8	a	☽ n. Caud. Leon.	virg.	15	2		30	
9	b	☽ n. Vindemiat.	libra	0	4		3	
10	c	☽ n. Spica Virg.	libra	14	5		36	
11	D	18 paſt Trinity	libr.	28	New		●	
12	e	☽ n. lanx. Bore.	ſcorp.	13	5	A	0	
13	f	Sol in Scorp.	ſcorp.	26	5		26	
14	g	☽ n. Cap. Herc.	ſagit.	10	6		02	
15	a	☽ n. dex. hu. Op.	ſagit.	23	6		48	
16	b	☽ n. luc. Lyræ	capr.	5	7		48	
17	c	☽ n. Caud. Vult.	capr.	17	9		00	
18	D	St. Luke	capr.	29	10		15	
19	e	♄ ♏ 29	aqua.	11	11		30	
20	f	♃ ♂ 10	aqua.	23	12		44	
21	g	♂ ♊ 29	piſces	5	0	M	44	
22	a	☿ ♏ 6	piſces	17	2		00	
23	b	Term begins	piſces	29	3		15	
24	c	☿ ♎ 26 ſt.	arles.	11	4		30	
25	D	20 paſt Trinity	aries	24	5		46	
26	e	☽ n. auſ. peſ. And	taur.	7	7		02	
27	f	☽ n. Pleiades	taur.	20	Full		○	
28	g	S. Sim. & Jude	gem.	3	4	A	48	
29	a	☽ n. Alhaior.	gem.	17	5		32	
30	b	☽ n. luc. peſ Ge.	canc.	1	6		30	
31	c	☾ n. Pollux	canc.	14	7		48	

Moon's Rising. Moon's Setting. ☽'s Setting.

Moiſt Air, and often high Winds, ☌ ♃ ☿ bringing ſhowers of Rain, and other whiles more calm and temperate, ☍ ♃ ☿ yet generally very various weather is expected △ ☉ ☌ the greateſt part of this Month now brisk gales of Wind, which bring ſome ſhowers of Rain, ☌ ♄ ☿ and in general, uncouſtant weather; about this time expect high ☌ ☉ ☋ Winds, with driſling Rain; which being paſt, 'tis hoped that the ☍ ♃ ☿ end of the Month will produce more mild and temperate weather. △ ☌ ☿

Engl. Accompt.

Saturn *sets a little before the Sun.*
Jupiter *towards the end is South at Midnight.*
Mars *riseth about 8 at night, and is South about* 4 *in the morning.*
Venus *riseth a little before the Sun.*
Mercury *is Combust.*

Engl. Accompt.	For. Accompt	Rom. Kalendar	Rom. Saints &c.								
1	11	b	Burchard	and there ware with one	1	6	37	5	23
2	12	c	Walfride	consent, they would with-	2		39		21
3	13	d	Telemach	stand their Enemies after-	3		41		19
4	14	e	18 S.p.Trin	wards; having gotten the	4		43		17
5	15	a	Hedwig	Victory, it pleased them	5		45		13
6	16	b	Gallus	to place this Altar in Hea-	6		47		15
7	17	c	Florent	ven, as a memorial of their	7		49		11
8	18	d	S. Luke	League, and a token of	8		51		9
9	19	e	Ptolomy	good which Unity doth	9		53		7
10	20	f	Wendelin	bread.	10		56		4
11	21	g	19 S.p. Trin		11	6	58	5	2
12	22	a	Cordula	*Corona Austrina*, the *South-*	12	7	0	5	0
13	23	b	Severin	*Garland*; it hath 13 Stars	13		2		58
14	24	c	Salome	Some say, that it was some	14	7	4	4	56
15	25	d	Crispin	trifling Garland, which *Sa-*	15		6		54
16	26	e	Amandus	*gittarius* was wont to	16		8		52
17	27	f	Victoria	wear; but he cast it away	17		10		50
18	28	g	20 S.p. Tri.	S. Simon, & S. Jude.	18		12		48
19	29	a	Narcissus	from him in Jest, and	19		14		46
20	30	b	Absalom	therefore it was placed	20	7	16	4	44
21	31	c	Wolfgang	between his Legs: Others	21		18		42
22	Nov.	d	All Saints	call it the Wheel of *Ixion*,	22		19		41
23	2	e	Om. Anim	whereupon he was tor-	23		21		39
24	3	f	Theophil.	mented for that great Dis-	24		23		37
25	4	g	21 S.p. Trin	courtesie he would have	25		25		35
26	5	a	Petron.	offered unto *Juno*, think-	26		27		33
27	6	b	Leonard	ing indeed to have gotten	27		29		31
28	7	c	Willibald	up her Belly. But *Jupiter*	28		31		29
29	8	d	Claudius	seeing the impudency of	29	7	33	4	27
30	9	e	Theodore	the man, tumbl'd him out of	30		35		25
31	10	f	Martin P.	Heaven	31		36		24

November hath xxx Days.

☾ Last Quarter the 3 day, at 2 in the morning.
● New Moon the 10 day, at 1 in the morning.
☽ First Quarter the 17 day, at 10 at night.
○ Full Moon the 25 day, 40 min. past 2 in the afternoon.

1	D	All Saints	canc.	29	9	A	18	
2	e	All Souls	leo	13	10		44	
3	f	☽ n. Cor. leonis	leo	27	12		12	
4	g	☽ n. Caud. Leon.	virgo	11	0	M	12	
5	a	Gunpowd. Plot	virg.	25	1		40	
6	b	☽ n. Vindemiatr.	libr.	9	3		8	
7	c	☽ n. Spica Virg.	libr.	2[illegible]	4		36	
8	D	22 past Trinity	scorp.	7	5		4	
9	e	☽ n. luc. in col S	scor.	21	7		3[illegible]	
10	f	☽ n. Cor. Scorp.	sagit.	5	New ●			
11	g	Martinmass	sagit.	18	4	A	38	
12	a	Sol in Sagit.	capr.	1	5		3[illegible]	
13	b	☽ n. Caud. Vult.	capr.	13	6		38	
14	c	☽ n. Luc. Vult.	capr.	25	7		50	
15	D	23 past Trinity	aqua.	7	9		10	
16	e	☽ n. sin. Hu. ♒	aqua.	19	10		21	
17	f	♄ ♐ 2	pisces	1	11		3[illegible]	
18	g	♃ ♉ 6 R.	pisces	13	12		45	
19	a	♂ ♊ 24 R.	pisces	25	0	M	45	
20	b	♀ ♐ 12	aries	7	2		00	
21	c	☿ ♏ 28	aries	19	3		18	
22	D	24. past Trinity	taur.	2	4		36	
23	e	☽ n. Cap. Me lu.	taur.	15	6		54	
24	f	☽ n. Pleiades	taur.	28	7		10	
25	g	☽ n. Alhaiot	gem.	12	Full ○			
26	a	☽ n. dex. hu. Aur	gem.	26	4	A	10	
27	b	☽ n. Syrius	canc.	11	5		2[illegible]	
28	c	Term ends	canc.	25	6		48	
29	D	Advent Sund.	leo	9	8		18	
30	e	St. Andrew	leo	24	9		54	

Moons Rising. — Moons Setting. — ☽'s Rising.

Seasonable weather at the beginning, but it soon changeth to stormy ♂ ☉ ♀ rough, turbulent, and right ☿ ♃ ☿ Winterly weather, and so continues till after the New Moon; then 'tis hoped that we ♂ ♄ ♀ may have a more moderate ♂ ☉ ♄ season; yet probable pretty store of Moisture after which some Fair and Frosty weather may be expected, and may so continue till after Full Moon, without any considerable alteration; then some remission of Cold is expected, ☿ ♂ ♂ and probably seasonable to the end.

Saturn *and* Venus *are both Combust.*

Jupiter *at the beginning is South a little after* 11 *at night: At the end he is South about* 9 *and sets a little after* 4 *in the morning.* Mars *riseth a little before* 6 *at night, and is South about* 2 *in the morning.* Mercury *riseth a little before the Sun.*

Rom. Kalendar.	Eccl. Accompt	Par. Accompt	Rom. Saints da.									
1	11	☉	22 S. p. Tr	Heaven (where, by the	1	7	38	4	22
2	12	a	Cuthbert	Licence of the Gods, he	2		39		21
3	13	b	Eugenia	was sometimes admitted as	3		41		19
4	14	c	Frederick	a Guest) into Hell, there to	4		43		17
5	15	d	Leopald	be continually tormented	5		45		15
6	16	e	Otmarus	upon a Wheel. The Fi	6		46		14
7	17	f	Hugo	gure of which Wheel was	7		48		12
8	18	☉	23 S. p. Tr	afterwards placed in Hea-	8		49		11
9	19	a	Elizabeth	ven, to teach men to take	9		51		9
10	20	b	Amos	heed how they be too fau-	10	7	52	4	8
11	21	c	Obl. V. M.	cy, to make such courteous	11		54		6
12	22	d	Cæcilia	Proffers unto other mens	12		55		5
13	23	e	Clemens	Wives.	13		57		3
14	24	f	Chrysog.	Lastly, *Pisces Australinus.*	14	7	58		2
15	25	☉	24 S. p. Tr	or *Notius*, the *South Fish.*	15	8	0	4	0
16	26	a	Conradus	which comprehendeth 11	16		1	3	59
17	27	b	Gunthernus	Stars, beside that which is	17		3		57
18	28	c	Rufus	in the Mouth thereof, be-	18		4		56
19	29	d	Saturn. F.	longing to the Water,	19		6		54
20	30	e	S. Andrew	which runneth from *Aqua-*	20	8	7	3	53
21			Longinus	*rius*, and is called by the	21		8		52
22	2			*Arabians*, *Femahant*; the	22		9		51
23	3	a	Cassian	reason why this Fish was	23		10		50
24	4	b	Barbara	placed in the Heaven, is	24		11		49
25	5	c	Sabina	uncertain; yet some affirm,	25	8	12	3	48
26	6	d	Nicholaus	that the Daughter of *Venus*	26		13		47
27	7	e	Agathon	going in a Water to wash	27		14		46
28	8	f	Conc. V. M.	her Self, was suddenly trans-	28		15		45
29	9			formed into a Fish; the	29		15		45
30	10	a	Mildredes	which	30	8	16	3	44

December hath xxxi Days.

☾ Laſt Quarter the 2 day, at 10 in the morning.
● New Moon the 9 day, at 4 in the afternoon.
☽ Firſt Quarter the 17 day, at 7 at night.
● Full Moon the 25 day, at 3 in the morning.
☾ Laſt Quarter the 31 day, at 7 at night.

1	f		☽n.luc.ter. Leo	virg.	8	11	A	20		♂ ☉ ♂	Tem-
2	g		☽ n. Caud. Leo	virg.	22	12		45		perate at the be-	
3	a		☽ n. Vindemiat.	libra	6	0	M	45		ginning for the ſea-	
4	b		☽ n Spica Virg.	libra	19	2		8		♂ ♂ ☿ ſon; but	
5	c		☽ n.luc.Coron.	ſcorp.	3	3		30		about the 5th or	
6	D		♃ S. Advent	ſcorp.	17	4		54		6th days Wind	
7	e		☽ n.Cor.Scorp.	ſagit.	0	6		17		Snow or Sleet, after-	
8	f		☽n. Cap. Herc.	ſagit.	13	7		40		△ ♃ ♀ wards	
9	g		☽n.dex.Hu.Op	ſagit.	20	New		●		ſome light Froſts;	
10	a		☽ n.luc. Lyræ	capr.	9	4		A 8		and about the 11th	
11	b		Sol in Capric.	capr.	21	5		22		or 12th days, ſome	
12	c		☽n.l.✳ in M ♒	aqua.	3	6		36		☿ ☉ ☿ cold and	
13	D	g	S. Advent	aqua.	15	7		50		ſharp Winds are	
14	e		☽ n. Fomahaut	aqua.	27	9		4		△ ♃ ☿ expe-	
15	f	♄	♆ 6	piſc.	9	10		18		△ ☉ ♃ cted;	
16	g	♃	♂ 4 ſt.	piſc.	21	11		32		then Miſty and	
17	a	Ember Week		aries	3	12		44		Foggy weather for	
18	b	♂	♊ 14	aries	15	0	M	44		ſome days, and ge	
19	c	♀	♍ 18	aries	27	1		54		nerally moderate	
20	D		♃ S. Advent	taur.	10	3		8		weather, the Seaſon	
21	e	St. Thomas		taur.	23	4		22		conſidered. But to-	
22	f	☿	♍ 17	gem.	6	5		36		ward the Full Moon	
23	g		☽ n. Alhaior	gem.	20	6		50		a briſk, ſharp, and	
24	a		☽ n.Syrius	canc.	5	8		4		froſty Air may be	
25	b	Nat.Chriſt.		canc.	19	Full		●		expected, and like-	
26	c	S. Stephen		leo	4	5	A	36		wiſe may ſo conti	
27	D	S. John		leo	19	7		9		nue till after the	
28	e	Innocents		virgo	4	8		42		Full Moon; yet	
29	f		☽a.Caud.Leo	virg.	18	10		15		generally ſeaſonable	
30	g		☽ n.Vindemiat.	libr.	3	11		48		weather, and tempe-	
31	a		☽ n.Spica Virg.	libr.	17	1		12		rate to the end.	

Moons Riſing. — Moons Setting. — ☽'s Riſing.

Saturn *at the beginning riseth betwixt 6 and 7 in the morning; at the end he riseth betwixt 4 and 5.* Jupiter *at the begin. is South a little before 9; at the end he is South before 7 at night.* Mars *at the begin. is South at midnight, at the end he is South before 10 at night.* Venus *sets after the Sun.* Mercury *is Combust*

Engl. Accompt.	For. Accompt.	Rom. Kalendar.	Rom. Saint. da.							
1	11	b	Damasus	which Fish was afterwards	1	8	16	3	44
2	12	c	Valerius	translated into Heaven.	2		17		43
3	13	d	Lucia V.	The Stars are brought	3		17		43
4	14	e	Nichasius	into Constellations for In-	4		18		42
5	15	f	Abraham	structions sake; things can't	5		18		42
6	16	☾	3 Advent	be taught without names:	6		18		42
7	17	a	Lazarus	to give a name to every	7		18		42
8	18	b	Christoph.	Star had been troublesom,	8		19		41
9	19	c	Loth	both to the Master, and for	9		19		41
10	20	d	Amon	the Scholar; to the Master	10		19		41
11	21	e	S. Thomas	to devise, and for the Scho-	11	8	19	3	41
12	22	f	Theodose	lar to remember, and there-	12		19		41
13	23	☾	4 Advent	fore the Astronomers have	13		19		41
14	24	a	Adã & Eve	reduc'd many Stars into one	14		19		41
15	25	b	Christmas	Constellation, that thereby	15		18		42
16	26	c	S. Stephen	they may tell the better	16		18		42
17	27	d	S. John	where to seek them, and	17		18		42
18	28	e	Innocents	how to express them.	18		18		42
19	29	f	Jonathan	The first Author of every	19		17		43
20	30	☾	David	particular Constellation is	20	8	17	3	43
21	31	a	Sylvester	uncertain, yet are they of	21		16		44
22	Jan.	1692.	Circ.	great Antiquity; we receive	22		15		45
23	2	b	Abel	them from *Ptolomy*, and he	23		15		45
24	3	c	Enoch	followed the *Platonicks*.	24		14		46
25	4	d	Methusal.	Moreover, we may perceive	25		13		47
26	5	e	Simeon	them to be ancient by the	26		13		47
27	6	✱	Epiphany	Scriptures; In *Job* 38. there	27		12		48
28	7	g	Julian	is mention made of th	28		11		49
29	8	a	Erhard	*Pleiades, Orion, Arcturus* and	29		10		50
30	9	b	Marcel	*Mazzaroth*, which some in-	30	8	9	3	51
31	10	c	Paul, Erem	terpret the *Twelve Signs*.	31		8		52

Table shewing how many Years purchase a Lease or Annuity to endure for any number of Years under 33. is worth presently, at Interest upon Interest, at Six in the Hundred; and shewing plainly how to discount any Lease in Being, and the value of the Reversion after any number of Years.

Years of a Lease.	Years.	Months.	Tenth parts.
1	0	11	0
2	1	9	9
3	2	8	1
4	3	5	9
5	4	2	5
6	4	11	0
7	5	7	0
8	6	2	7
9	6	9	9
10	7	4	3
11	7	9	7
12	8	4	6
13	8	10	3
14	9	3	6
15	9	8	5
16	10	1	2

The Use and Explanation of the TABLE.

The first Column towards the left Hand sheweth the Years of a Lease, or Annuity, & right against each Year, is the Years, Months, & Tenth Parts of a Months Purchase, that such a Lease or Annuity is worth.

EXAMPLE.

Suppose a Lease or Annuity to continue 12 Years, and you would know how many Years purchase it is worth in present Money, look in the Table for Twelve Years of a Lease to the left Hand, & against the same you shall find, 8, 4, 6. which sheweth that such a Lease is worth eight Years, four Months, & six Tenth Parts of a Months Purchase.

Years of a Lease	Years.	Months.	Tenth parts.
17	10	5	8
18	10	9	3
19	11	1	9
20	11	5	7
21	11	9	3
22	12	0	5
23	12	3	6
24	12	6	6
25	12	9	4
26	13	0	0
27	13	2	5
28	13	4	9
29	13	7	1
30	13	9	2
31	13	11	1
32	14	1	0

AGAIN:

If you are to take or buy the Reversion of any Lease or Annuity, work thus; Suppose the Lease to be Thirty Years in all, you find in the Second Table and Right Hand against thirty, 13 Years, 9 Month, and 2 Tenth Parts of a Months Purchase; this it were worth were it in present Possession. But suppose there be a Lease of five Years (more or less) before you Commence, look in the Table against the five Years, and there you find four Years, two Months, five Tenth Parts of a Months Purchase; take this out of the Sum against thirty, which is, 13, 9, 2. The Remainder is, 9, 6, 7. which is 9 Years, 6 Months, and 7 Tenth Parts of a Month: And so much is the Reversion after five Years worth, the Remainder of thirty Years.

This is Useful, and very Easie.

SAUNDER, 1691.

The Second Part.

Containing the Eclipses; the Suns Quarterly Ingresses, the Southing of the seven Stars for every 5th. day of this Year. With Rules and Tables for the measuring of Board, Glass, Pavements, or other Superficial Measure; as also to Measure Timber; And many other things worth Observation.

The Characters of the Twelve Signs.

♈ Aries, ♉ Taurus, ♊ Gemini, ♋ Cancer, ♌ Leo, ♍ Virgo, ♎ Libra, ♏ Scorpio, ♐ Sagittary, ♑ Capricorn, ♒ Aquarius, ♓ Pisces.

The Characters of the Planets, with the Dragons Head and Tail.

♄ Saturn, ♃ Jupiter, ♂ Mars, ☉ Sol, ♀ Venus, ☿ Mercury, ☽ Moon, ☊ Dragons Head, ☋ Dragons Tail.

The Aspects.

☌ Conjunction, ✱ Sextile, □ Quartile, △ Trine, ☍ Opposition.

A Brief Chronology of Memorable things, to this Year, 1691.

The Creation of the World	5639
Noahs Flood	[illegible]
The destruction of Sodom and Gomorrah	[illegible]
The destruction of Troy	2893
Brute entred this Island	[illegible]

Since

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Years of a Lease.	Years.	Month.	Tenth parts.
1	0	11	0
2	1	9	9
3	2	8	1
4	3	5	9
5	4	2	5
6	4	11	0
7	5	7	0
8	6	2	7
9	6	9	9
10	7	4	3
11	7	9	7
12	8	4	6
13	8	10	3
14	9	3	6
15	9	8	5
16	10	1	2

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17	10	5	8
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19	11	1	9
20	11	5	7
21	11	9	3
22	12	0	5
23	12	3	6
24	12	6	6
25	12	9	4
26	13	0	0
27	13	2	5
28	13	4	9
29	13	7	1
30	13	9	2
31	13	11	1
32	14	1	0

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If you are to take or buy the Reversion of any Lease or Annuity, work thus; Suppose the Lease to be Thirty Years in all, you find in the Second Table and Right Hand against thirty, 13 Years, 9 Month, and 2 Tenth Parts of a Months Purchase; this it were worth were it in present Possession. But suppose there be a Lease of five Years (more or less) before you Commence, look in the Table against the five Years, and there you find four Years, two Months, five Tenth Parts of a Months Purchase; take this out of the Sum against thirty, which is, 13, 9, 2. The Remainder is, 9, 6, 7. which is 9 Years, 6 Months, and 7 Tenth Parts of a Month: And so much is the Reversion after five Years worth, the Remainder of thirty Years.

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☌ Conjunction, ⚹ Sextile, □ Quartile, △ Trine, ☍ Opposition.

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THe Creation of the World	5639
Noahs Flood	3985
The destruction of Sodom and Gomorrah	2503
The destruction of Troy	2873
Brute entred this Island	2708

Since

The Building of *London*	2798
The Building of *York*	2680
The Building of *Leicester*	2635
The Building of *Canterbury*	2583
The building of *Stamford*	2554
The building of *Rome*	2443
The destruction of *Jerusalem* by *T. Vesp.*	1604
England first received the Christian Faith	1511
The Tower of *London* built	1126
Duke *William* Conquered *England*	625
Westminster-Hall was built	592
The Bible divided into Chapters	496
The Invention of Guns	313
The Art of Printing	251
St. *Pauls* Steeple fired by Lightening	130
New Star in *Cassiopeia*	118
A great Snow fell *Feb.* 4.	113
Tilbury Camp on St. *James*'s day	103
A Plague in *London*, whereof dyed 30598	87
Gunpowder Treason, *November* 5.	86
A great Snow, and *Smithfield* paved	76
A great Plague in *London*, whereof dyed 35418	66
The Long Parliament began, *Nov.* 3.	51
King *Charles* the First was Murdered	43
Two Comets appeared in *December* and *March*	27
The doleful Plague that followed them	26
London was burnt. *September* 2. 3, 4, 5,	25
The last great Snow	15
The wonderful Comet in *December*	11
A Comet in *August*	9
The terrible Fire in *Wapping*, *November* 19.	7
A great Earthquake, *October* the 8th.	6
The last great Frost	5
The Rebellion in the *West*	4

Of the Eclipses this Year.

IN this Year of 1691, there will be Two Eclipses of the Sun, which will appear to the Inhabitants of this Terraqueous Globe; But none of the Moon will happen in all this Solar Revolution; neither will those of the Sun appear to any part of *Great Britain* or *Ireland*: They happen as followeth,

The

The first Eclipse of the Sun hapneth upon the 18th day of *February*, about 55 minutes after 4 of the Clock in the Morning, at which time the Sun is not risen to us, therefore the Eclipse cannot be seen by us; But it will appear very great in the *Indian* Ocean, and to the Inhabitants of *Malabar*, *Coromandell*, about the Island *Ceylon*, the Gulph of *Bengall*: Also about *Malatta*, the Islands of *Sumatra* and *Borneo*; It appeareth Central, and in the 29degesim degree of the Ecliptick.

The Second Eclipse of the Sun falleth upon the 12th day of *August*, about 3 min. and 17 sec. after 5 of the Clock in the Afternoon: This Eclipse is also a very great Eclipse, but not seen here, nor to any part of *Europe*, by reason of the Moons Parallax, (which to us is always South) together with her Latitude, which at this time is South also; whereby she is so far depressed, that she interposeth not betwixt the body of the Sun and any part of *Europe*. And had I not heretofore found the Imperfections of the late Twenty Years Ephemerides, chiefly in that particular of Eclipses, I should have very much admired the words of the Author thereof; which (of this Eclipse) are, That it will be visible to us in *England*, if the Air be Serene: That it will be a great Eclipse; Three fourths of the Suns Body will be Obscured: But I fear he hath beat his Brains so much about Nativity-Casting, and Fortune-Telling, that it retains not any purely Astronomical Notions, else he could not easily run into such mistakes. I hope none of our Yearly Writers will blindly take him upon trust, as to tell us, that it will appear a great Eclipse in *England*, as some did, speaking of the Eclipse of the Sun which hapned upon the First of *May* 1687; which indeed was observed at *London* about half a digit. But of this Eclipse: Though it appear not to us, yet it is a great Eclipse, and will so appear to all the middle parts of *America*, to the most Eastward parts of the *South-Sea*; also about *Hispania Nova*, the Island of *Cuba*, and *Jamaica*, and about the most Northward part of *Peru*, and the most Westward part of that Country called *Terra Firma*; It will appear nearly Central; it will appear also in part about the Islands of the *Green Cape*, and to such as Sail from thence to *Brasilia*, and in other parts of *America*.

As to the Effects of the Eclipses: *Proclus* saith, That an Eclipse of the Sun, *In ♐ Decim primis gradibus Fluvios exinat, maritima infortunat, ——— In medio decano, clari, præstantisque viri mortem, ac in maritima regionibus piscium vastitatem, terræmotum facit*: He also saith, That an Eclipse of the Sun, *In ♏, decano primo, calamitosum regis alicujus exitum, & stragem arguit.*

Of the Four Quarters of the Year, and first of the Spring.

THE Spring Quarter begins when the Earth enters the first point of *Libra*, the Sun then seeming to touch the Opposite point *Aries*, which this year happens in and about the Meridian of *Leicester*, on Tuesday the 10th. of *March*, 22 min. past 7 in the morning, or Astronomically the 9th. of *March* at 19 h. 25 m. 56 sec. 24. thirds in the Meridian of *London*, according to Mr. *Greenwoods Astronomia Anglicana*.

Here follows the Calculation.

	☉	☽	☽	☽
Longit. ☉ ab Equinox	00	00	00	00
Precession substract	00	28	48	09
Longit. ☉ â 1 ✶ ♈	11	01	11	51
Anomalia ☉ Media Correspond.	08	20	49	27
Anomal. to the year 1691. subst.	06	13	00	16
Remains	02	07	49	11
Anomal. to *March* substr.	01	28	09	04
Remains	00	09	40	07
Anomal. to 9 days substr.	00	08	52	14
Remains			47	53
Anomal. to 19 hours substr.			46	49
Remains			01	04
Anomal. to 25 min. substr.			01	01
Remains			00	02
Anomal. to 86 seconds substr.				02
Remains				00
Anomal. of 24 Thirds substr.				00
Remains	00	00	00	00

I Find

I should not here have inserted the Calculation, but that having Calculated the last Year from the same Tables, and finding that the Author of those Tables in his *Diarium Planetarum* for the last Year, having inserted the Calculation of the Suns entrance into *Aries*, from his own Tables, differs considerably from the Calculation which I have made: I therefore Calculated a New in order to prove the Truth of the Old; and find that the Calculations do so far agree with each other, as to make the Tropical Year of the same length allowed by Mr. *Greenwood*, within less than 2 Seconds of time. When I first saw the *Diarium Planetarum* of Mr. *Nicholas Greenwood*, the Author of *Astronomia Anglicana*, I expected to have found that the chief of it had been Calculated from his own Tables; but when I found the Planets places, (Two of which, *viz.* the Sun and Moon have their places set for every Day, and the other Five Planets for every fifth Day) all taken from *Gadbury*'s Ephemerides, and that there was no Eclipse Calculated; but chiefly when I found that not one of the Ingresses of the Sun into the Four Cardinal Signs, (in the said *Diarium Planetarum*,) agreed with my Calculations which I had made from the aforesaid Tables; (wherein I concluded also, that I had been moderately exact,) I could not easily perswade my self that the said *Diarium Planetarum* was written by the Author of *Astronomia Anglicana*, but that the Advertisement towards the end seems to confirm it: However it be, either I have mistaken, or else the Author of the said *Diarium Planetarum*, and indeed the difference is very considerable, especially in the Suns entrance into *Cancer*, where it is an hour and a quarter: In the Suns entrance into *Aries*, the difference is not about a quarter of an hour; But here I presume the Author of the *Diarium Planetarum* is mistaken in his mean Anomaly, correspondent to the Longitude of the Sun from the first Star of ♈, for I cannot make it out by *Astronomia Anglicana*, that 8 Sig. 20 deg. 50 min. 46 sec. is the mean Anomaly correspondent to 11 Sig. 01 deg. 47 min. 39 sec. which is the Suns Longitude from the first Star of ♈: And although there be in the said Calculation many *Errata's* of the Press (as there is likewise in *Astronomia Anglicana*, over and above what the Author hath Corrected) yet in the mean Anomaly aforesaid there seems to be no mistake of the Printer, because the whole Calculation is carryed on with a supposition of such mean Anomaly as aforesaid; But this *obiter*. ——And further of the Spring. Now

Now as the days and nights are of equal length, so is there an equality in the temper of the Air; whereby the Pores of the Earth are relaxed, and a vivifying fume evaporating, ascendeth by the cold and chillified Roots of Herbs and Plants, and produceth their vegetable Life. The nature generally of this Quarter is hot and moist, but sometimes it proving otherwise, bringeth sudden and strange diseases, and dangerous distempers. Such persons as are naturally Melancholly do enjoy their Healths the best this Quarter; But the Sanguine the contrary; Such diseases as do proceed from excess and putrefaction of blood are most dangerous, but such as have their Original from Melancholly are less hurtful. In *March* be not too busie in purging or bleeding, but rather bathe and use such meats or medicines as purge and sweeten the blood. In *April* you may freely bleed, bathe, or purge if there be occasion, but drink moderately, for excessive drinking is more dangerous now than at any time of the year; also forbear salt meats. In *May* you may purge gently the blood or body, or open a vein; to drink clarified Whey is good, but forbear Wine, and such meats as are of hot quality.

Of Summer.

THis Quarter begins the 11th. day of *June*, 8 min. 31 seconds, after 10 of the Clock in the morning, the Sun then appearing at the Tropick of Cancer, maketh the longest day and shortest night to all the inhabitants on this side the Equator. The constitution of this Quarter is naturally hot and dry, sympathizing with Choler, Persons of Phlegmatick constitutions are best in health this quarter, the cholerick the contrary, antient people do now revive, but young people languish through the excess of blood, and are thereby expoled to Feavers, especially the Tertian: In the month of *June* abstain from such meats as ingender raw, crude, and moist humours; now a cup of good White-wine taken in a morning fasting doth purge choler, and offensive humours from the Stomack. It is now excellent good to rise early, and to exercise the body with moderate walking. In *July* beware of bleeding or purging, unless there be great occasion, beware also of eating such meats as ingender melancholly, and of taking cold: In this and the next month refrain immoderate exercise and venery, and drink not much Wine, for now it dries the Stomach and Liver, and but too much increase Choler.

Of

Of Autumn.

AUtumn this year begins the 13th. day of *September*, 13 min. 24 seconds after 1 of the Clock in the morning, the Earth then entring Aries, or the Sun Libra, again making equal day and night to all the World, (except under the *Poles*). This Quarter naturally is cold and dry resembling melancholy; youth is now lively; persons of moist and phlegmatick constitutions are now best in health, the melancholy the contrary. In *September* eat moderately of all such meats and fruits as your stomack desires, for they are now in their vigour and perfection; in this month or the next you may bleed or purge, if there be occasion, but in *November* melancholly increaseth, and blood decreaseth, to vomit sometimes may do well, but bathing now is not good, salt, or powdered meats may now be eaten without any prejudice, roasted meats and wild Fowl are now held to be very wholsome; In this Quarter beware of taking cold.

Of Winter.

WInter Quarter begins the 11th. day of *December*, at 1 h. 26 min. 47 seconds after Noon, the Sun appearing then at the entrance into the Tropical Sign Capricorn, maketh the shortest day, and longest night to all on this side the Equator. This quarter naturally is cold and moist, therefore young people and cholerick persons are best in health, but aged and phlegmatick persons the contrary. In *December* melancholy and phlegm do much increase, and it therefore behoves all persons that prize their healths, to keep their heads and bodies well from cold, and to eat such meats as be of a hot quality. 'Tis not now good to bleed or purge unless there be great occasion; to drink Wine now and then, and to use good Spices in your Diet is very good, the same observe in *January*; but in *February*, Confections candied with Hony; also Apples are very wholesome, but all meats of a moist nature are now accounted hurtful, you may take pills to purge the Head, also bathe or take potions, and bleed now if there be occasion.

To find the Rising, Southing and Setting of several fixed Stars hereafter mentioned.

IN the Tables following you have first the seven Stars Southing for every fifth day; in the second Table is set the difference in Southing of those Stars (therein named,) and the seven Stars, which being added to the time of the seven Stars Southing

giveth theirs. In the same Table is also set their semidiurnal Arches thereby to find the rising and setting of the said Stars. Suppose it is required to know what time the great Dog-star called *Sirius* will be South the 11th. of *February*? I then find the Seven Stars South at 5 hor 10 min. to which I add 2 ho. 2 min. the difference annexed to the great Dog-Star, and it makes 8 ho. 12 min. being the time of its Southing the said 11th. of *February*. If to the Southing you add the Semidiurnal Arch 4 ho. 31 min. it gives the time of its setting at 12 ho. 43 min. but if you substract the Semi-diurnal Arch from the Southing it leaveth the time of its Rising. The like may be done by any other of the said Stars.

For the better distinction of the several sizes of Stars they are divided into six several Magnitudes, The biggest and brightest Stars are called Stars of the first Magnitude. Those one size inferiour in light, and bigness are called Stars of the second Magnitude, &c. Now for the better knowing the Stars hereafter mentioned, Note, that the great Dog-star, Lions Heart, Virgins Spike, and the bright star of *Lyra*, are accounted stars of the first magnitude, so are also *Aldebaran* and *Arcturus*, but they are Red stars, much of the colour of *Mars*, all the rest in the Table are of the second magnitude, except the Northern and Southern *Asses*, which are small Stars being of the fourth Magnitude.

A Table shewing the Hour and minute of the Seven Stars coming to South, every 5th day of this year, 1691.

Moneths	Dayes of the Moneth. 1		6		11		16		21		26	
	H.	M.	H.	M.	H.	M.	H.	M.	H.	M.	H.	M.
January	7	A 57	7	A 36	7	A 14	6	A 53	6	A 32	6	A 12
February	5	A 49	5	29	5	10	4	51	4	32	4	14
March	4	A 0	3	41	3	23	3	4	2	46	2	28
April	2	A 7	1	48	1	30	1	11	0	52	0	32
May	0	A 14	11	M 54	11	M 34	11	M 14	10	M 53	10	M 33
June	10	M 8	9	47	9	26	9	6	8	45	8	25
July	8	M 5	7	45	7	24	7	4	6	45	6	25
August	6	M 3	5	45	5	26	5	8	4	49	4	31
September	4	M 10	3	52	3	34	3	17	3	0	2	41
October	2	M 22	2	3	1	44	1	25	1	50	1	46
November	0	M 22	0	2	11	A 39	11	A 16	10	A 54	10	32
December	10	A 11	9	A 49	9	26	9	4	8	41	8	20

Table shewing the difference in hours and minutes between the coming to south of several fixed stars, and the seven stars, as also their semi-diurnal Arches thereby to find their rising and setting.

Names of the Stars.	Diff. south.	semid. Arches	Names of the Stars.	Diff. south.	semid. Arches
	h. m.	h. m.		h. m.	h. m.
Aldebaran B. eye	0 49	7 28	Lions heart, Basil.	6 23	7 13
2d. in Orions Girdle	1 51	5 54	Virgins Spike	9 40	5 9
Gr. Dog. Syrius	3 2	4 81	Arcturus	10 32	8 0
Castor 1st. head ♊	3 46	9 47	South ballance	11 54	4 49
Lit. Dog. Procyon	3 54	6 32	North ballance	11 31	5 16
Pollux, 2d. head ♊	3 57	9 4	Northern Crown	11 52	8 55
Northern Ass.	4 56	8 12	bright Lyræ ✳	14 57	sets not
Southern Ass.	4 58	7 49	bright ✳ Vulturis	16 66	4 42

Here followeth some few Rules, and Tables, for the mensuration of Superficies and Solids.

FOr the Mensuration of superficial or flat measures, such as Board, Glass, Pavement, Hangings, &c. it will be necessary to know how to measure any plain superficial figure; as the Square, Long-square, or Parellelogram, Triangle, Circle, parts of the Circle, *&c.* examples of all which do here follow.

I. *How to measure a Square.*

Let there be a square floor, or pavement, the sides whereof are each of them 5 feet 6 inches, and 'tis required to know how many square, or superficial feet are contained therein. First (a good plain way to avoid Fractions will be to) Reduce the whole side into inches, 5 feet. 6 inches, being 66 inches, multiply 66 by 66, and the Product will be 4356, the superficial content in inches; then divide 4356 by 144 (the square inches in one foot) and the quotient will be 30 feet, and 36 inches remaining, which is the number of inches in one quarter of a foot; so that in such a square is contained 30 feet and one quarter. See the Margin.

66
66
396
396
4356
4356
144
(30
432
36

II. *To measure the Long-square or Parallelogram.*

Suppose there be a Pavement whose length is 72 feet, and breadth 12 feet, how many feet is contained therein.

Multiply 72 in length, by 12 the breadth, and the product will be 864, and so many superficial feet are contained in that Pavement.

72
12
144
72
864

III. *To Measure a Long Superficies, which is broader at one end than at the other.*

Let there be a superficies whose length is 72 inches, the breadth of the greater end 50 inches, and the breadth of the lesser end 34 inches, and let it be required to know how many feet are contained therein. First, add the breadths of both the ends together, which maketh 84, take half thereof, which is 42, which being multiplyed by 72 the length, the product will be 3024 the content in inches, which being divided by 144 (the inches in one foot) the Quotient will be 21 feet, and nothing remaining, so that there is exactly 21 feet in such a superficies.

72
42
144
288
3024
144
288 (21
144

IV. *How to Measure Triangles.*

All Right lined Triangles are measured by this general Rule.

Multiply half the length of the Base by the whole Perpendicular. Or, the whole length of the Base by half of the Perpendicular.

Suppose the Base of a Triangle be 44, and the Perpendicular 26, what is the Content.

Multiply 44 (the Base) by 13, (half the perpendicular) the Product will be 572 : Or 22 (half the Base) being multiplyed by 26, (the whole perpendicular) the Product will be 572, as before, which is the Content of such a Triangle.

V. All *Trapezias*, or figures with four unequal sides; also Multangular, or many sided irregular figures, must be divided into Triangles, and those Triangles measured as before is taught, and their sums added together will give the Content of such irregular figures. And note, that the least number of Triangles, into which any plot or irregular figure may be reduced, will be less by two than the number of the sides of such irregular figures.

VI. *How to Measure Circles, and parts of Circles.*

The Diameter of every Circle hath such proportion to the circumference of the same Circle as 7 hath to 22. Therefore

having the

the Diameter being given to find the circumference, you muſt multiply the Diameter by 22, and the product being divided by 7, the Quotient will be the Circumference. Thus, ſuppoſe the Diameter of a Circle be 14, multiply 14 by 22, the product will be 308, which being divided by 7, the Quotient is 44, being the circumference of that Circle whoſe Diameter is 14.

Having the Circumference to find the Diameter.

Multiply the circumference given by 7, the product divide by 22. and the Quotient will be the Diameter. Let the circumference of a circle be 60, multiply 60 by 7 the product will be 420, which being divided by 22, the Quotient will be 19, and $\frac{2}{22}$ or $\frac{1}{11}$ which is the Diameter.

To find the Area or Superficial content of a Circle. Multiply half the circumference by half the Diameter, the product is the content of the Circle: Thus, Let the circumference be 60, the half whereof is 30, and the Diameter $19\frac{2}{22}$ the half whereof is $9\frac{1}{22}$, by which multiplying 30, the product will be $286\frac{4}{11}$ which is the ſuperficial content of ſuch a Circle; or,

By the Diameter to find the Area of the circle. Firſt, ſquare the Diameter, multiply the ſquare by 11, and divide the product by 14. the Quotient is the ſuperficial content of the circle.

Let the Diameter be as above $19\frac{1}{11}$ the ſquare whereof is $364\frac{16}{121}$ this multiplied by 11 produceth $4009\frac{7}{11}$ which being divided by 14 the Quotient is $286\frac{4}{11}$ as above, being the ſuperficial content of ſuch a circle.

To meaſure the ſuperficial content of half the circle, the quarter of a circle, or of any other ſection of a circle, more or leſs, having the ſemidiameter given.

Multiply half of the compaſs thereof by the ſemidiameter of the circle, ſo ſhall you have the content.

Of the Menſuration of Solids.

AS Plain or Superficial Meaſure conſiſteth of two dimenſions, namely, length and breadth; ſo Solid meaſures conſiſteth of three dimenſions, namely, length, breadth and thickneſs.

To meaſure any kind of Timber, either Square, Triangular, Round, or of any other Faſhion, provided it be ſtraight and equal all along.

Caſt up the ſuperficial Content at the end thereof, by the Rules before going, for the finding the Content of the Square, Triangle, Circle, &c. which Superficial Content being multi-

plyed

plyed by the length of the Piece, will give you the Solid Content thereof. *Exampli.* Let there be a piece of Timber, (or other solid matter) whose breadth is 18 inches, its depth 13 inches, and length 142 inches, to find how many solid feet are contained therein. First, multiply the breadth 18 by the depth 13, the product is 234, being the superficial inches at the end of the piece. Secondly, multiply this 234 by 142 the length of the piece, and the product will be 33228, the solid Content in inches. Thirdly, divide 33228 by 1728, (being the number of cubical inches in one solid foot) and the quotient will be 19, and 396 inches remaining, which is 19 solid feet, and almost one quarter of a foot, and so much is the solid content of such a piece.

A 2d Example of a round piece. Let there be a round piece of Timber whose compass is 60 inches, and the length 20 feet, (or 240 inches) and let it be required to find the solid content thereof. First, by the help of the circumference 60, find the Diameter (as before is taught) by multiplying 60 by 7, and dividing the product thereof by 22, so shall you find the Diameter to be $19\frac{1}{11}$: Then by either of the ways before taught, *viz.* by multiplying $\frac{1}{3}$ the circumference by $\frac{1}{4}$ the Diameter; or by (squaring, or) multiplying the Diameter in it self, and multiplying that square by 11, and dividing the product by 14, the superficial content of the end of such a piece will be found to be $286\frac{4}{11}$ inches. Now multiply this $286\frac{4}{11}$ by the length of the piece 240, and the product will be $68727\frac{3}{11}$ the content in inches, which being divided by 1728, the quotient will be 39 feet, and $\frac{3}{4}$ of a foot, and $39\frac{3}{11}$ inch. remaining, which is the solid content of such a piece of Timber. But had this piece of Timber been measured by that egregiously false way of taking $\frac{1}{4}$ part of the Girt for the side of the square equal, it would have been found to be but 31 feet and $\frac{1}{4}$ of a foot, which is above $\frac{1}{4}$ part less than the truth, it being 39 feet, & above $\frac{1}{4}$

In behalf of that erroneous way many do plead, that in round Timber there is great loss in chipping to bring it near a square, therefore that way may be allowed; but this is very unequal: in great Timber there being little loss, in small Timber much, let therefore the quality be considered, rather than make such unequal amends by a false quantity.

Of the Mensuration of Tapering Timber, either round or squared, such as Frustums of Cones and Pyramids.

First find the superficial Area of each end of the piece, and multiplie the one Area by the other. Secondly, out of the

the product of the two Area's, extract the Square Root. Thirdly, add this Root and the two Area's all into one sum. Lastly, multiply this sum by one third part of the length of the piece, and that product shall give you the Content.

Let there be a piece of Timber whose Circumference at the greater end is 66 inches, at the lesser end 44 inches, and the length 20 feet, and it is required to find how many solid feet are contained therein. First, the Area of the Circle at the greater end (by multiplying half the Circumference 33 by half the Diameter $10\frac{1}{2}$) will be found to be $346\frac{1}{2}$, and the Area of the Circle at the lesser end will be 154: These multiplyed together do produce 53361. Secondly, out of this product extract the Square Root, which is 231, (for 231 being multiplyed in it self produceth 53361). Thirdly, add the two Areas, and the Square Root 231 together, and the sum of them will be $731\frac{1}{2}$. Lastly, multiply $731\frac{1}{2}$ by 80 inches, (one third part of the length) and the product will be 58520, being the solid inches contained therein, which inches being divided by 1728, the Quotient will be 33 feet, and 1496 inches remaining, which is 3 quarters of a foot, and almost half a quarter.

To find the Content of Tapering Timber, other wayes than is taught above.

These pieces being parts of Cones or Pyramids, their Contents may be found by seeking the Content of the whole Cone or Pyramid, (of which they are part) and the Content of that part which is wanting, for that part being substracted from the whole, the remainder must be the Content of the part required.

Now the way to find the content of a Cone or Pyramid is, to multiply the superficial Content of the Case by one third part of the length; and to find the length of the top part of a Cone or Pyramid which is wanting; say thus, as the difference of the sides, or Diameters of the two ends, to the length between them; so is the side, or Diameter of the greater end, to the whole length. *Example*, of the piece before mentioned, whose greater end is 66 inches about, and the lesser end 44 hence the Diameter of the greater end will be 21, and the Diameter of the lesser end will be 14, and their difference is 7, therefore say, if 7 give 20 feet what will 21 give; Answer, 60 feet, being the whole length of the Cone; now the superficial

contents

content of the Base of this Cone, (being 346$\frac{1}{2}$ inches) multiplyed by 240 inches, (one third part of the length of the whole Cone) produceth 83160 inches, the content of the whole Cone. And the superficial content of the lesser end, (which is the Base, of the top (or wanting) part of the Cone) which is 154, being multiplyed by 160, (one third part of the length of the top (or wanting) part) produceth 24640 inches, the content of the wanting part, which being substracted from 83160, (the content of the whole Cone) the remainder is 58520 inches, the content of the part required, being the same as before.

Here followeth Tables ready calculated, for the Measuring of Squared or Round Timber, which is supposed to be equal all along: Their use is thus, seek the side of the Squared, or compass of the Round Timber, in the first, third or fifth columns of the Tables, and against it, in the next column you have the length of a solid foot. Thus, the side of a squared piece of Timber being 20 inches, the length of a solid foot will be 4 inches, and 3 tenth parts of an inch: And the compass of a round piece, being 80 inches the length of a solid foot will be found to be 3 inches, and 39 hundredth parts of an Inch.

A Table, shewing how much in length will make a Solid foot, of any Square Stone or Timber: The side of the Square being given in inches, from one inch to 26 inches square.

Side of the Square.	Length of a solid foot.			Side of the Square.	Length of a solid foot.		Side of the Square.	Length of a solid foot.	
Inch.	Fe.	Inc.	10th	Inch.	Inc.	10th.	Inch.	Inc.	10th.
1	144	0	0	13	10	2	25	2	8
2	36	0	0	14	8	8	26	2	6
3	16	0	0	15	7	6	27	2	3
4	9	0	0	16	6	7	28	2	2
5	5	9	2	17	5	9	29	2	1
6	4	0	0	18	5	3	30	1	9
7	2	11	2	19	4	8	31	1	8
8	2	3	0	20	4	3	32	1	7
9	1	9	3	21	3	9	33	1	6
10	1	5	3	22	3	5	34	1	5
11	1	2	3	23	3	3	35	1	4
12	1	0	0	24	3	0	36	1	3

A Table shewing how many inches in length will make a foot solid, of any round piece of Timber or Stone, the Girt being known, from 12 inches compass to 100.

Com. Inch.	len. of a foot Inch.	100 p.	Com. Inch.	len. of a foot Inch.	100 p.	Com. Inch.	len. of a foot Inch.	100 p.
11	179	46	41	12	92	71	4	31
12	150	80	42	12	31	72	4	20
13	128	49	43	11	74	73	4	08
14	110	79	44	11	31	74	3	97
15	94	31	45	10	72	75	3	86
16	84	82	46	10	26	76	3	76
17	75	14	47	9	83	77	3	66
18	67	02	48	9	42	78	3	57
19	60	15	49	9	04	79	3	48
20	54	29	50	8	69	80	3	39
21	49	23	51	8	35	81	3	31
22	44	86	52	8	03	82	3	23
23	40	90	53	7	73	83	3	15
24	37	69	54	7	42	84	3	08
25	34	74	55	7	18	85	3	01
26	32	12	56	6	92	86	2	94
27	29	79	57	6	68	87	2	87
28	27	70	58	6	45	88	2	80
29	25	82	59	6	24	89	2	74
30	24	13	60	6	03	90	2	68
31	22	60	61	5	84	91	2	62
32	21	21	62	5	65	92	2	57
33	19	92	63	5	47	93	2	51
34	18	78	64	5	30	94	2	46
35	17	74	65	5	14	95	2	41
36	16	76	66	4	98	96	2	36
37	15	86	67	4	84	97	2	31
38	15	04	68	4	70	98	2	26
39	14	28	69	4	56	99	2	22
40	13	57	70	4	43	100	2	17

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